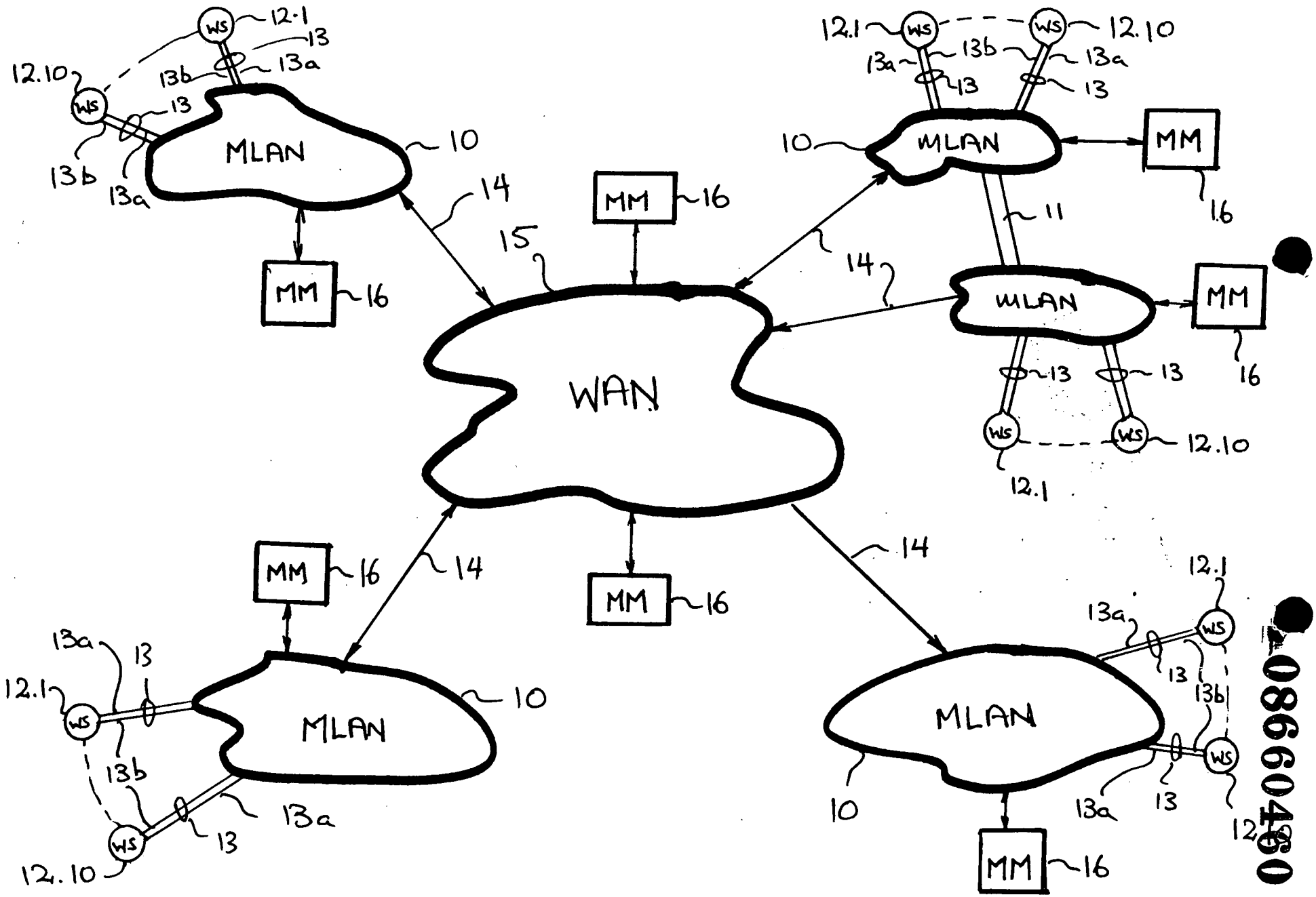


FIGURE 1

0866040

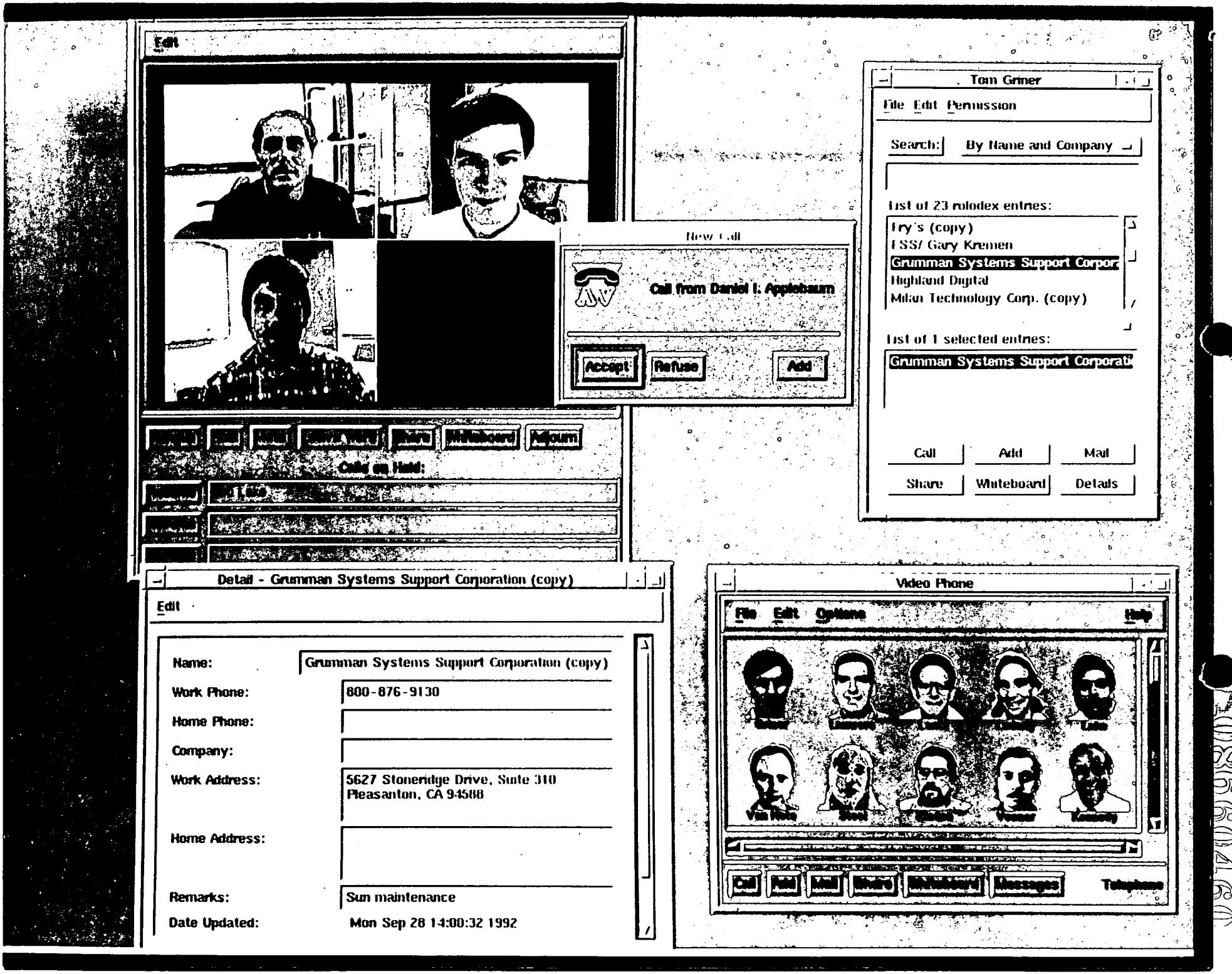


FIGURE 2A

5,862,460

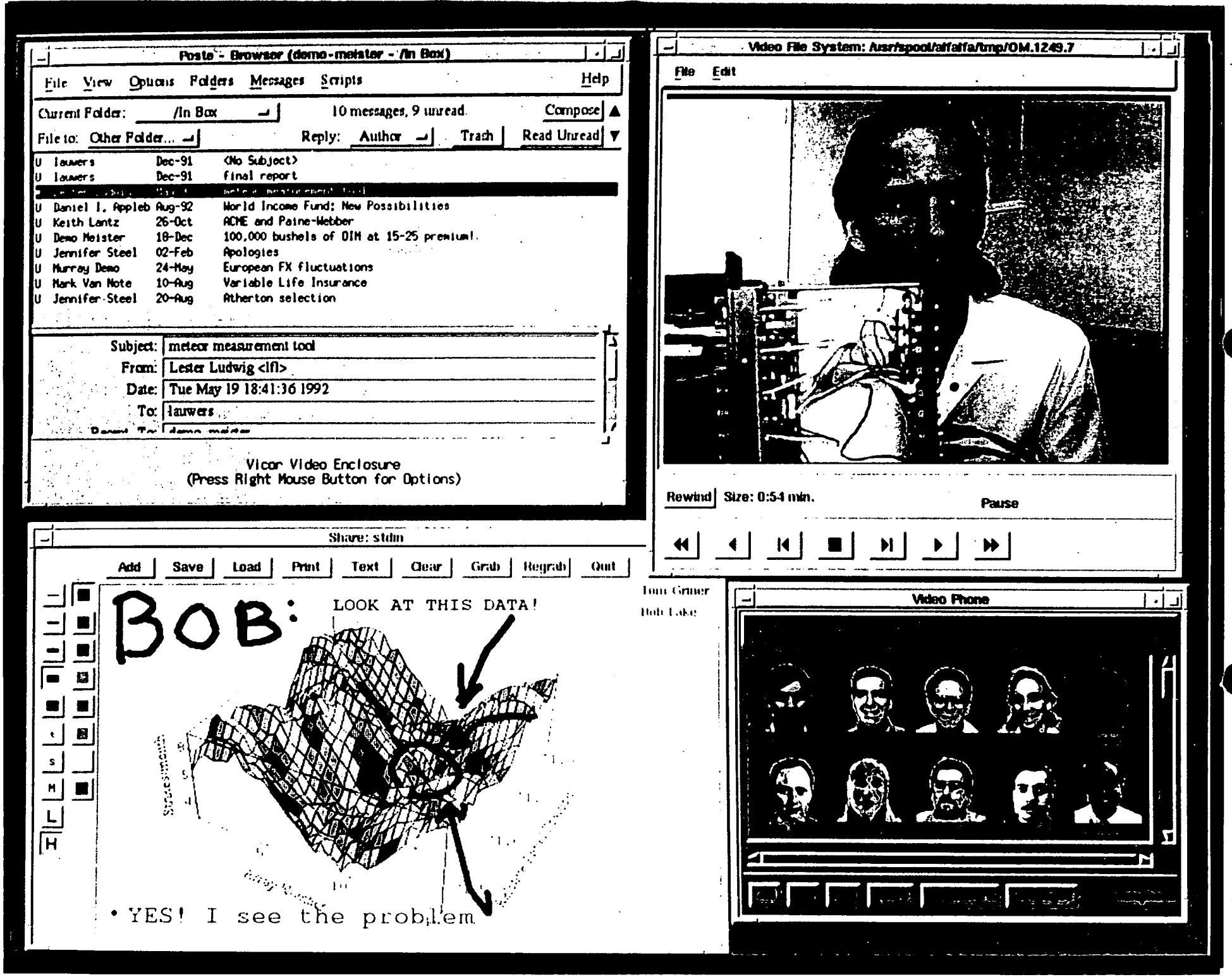

Poste - Browser (demo-meister - /In Box)
File View Options Folders Messages Scripts Help
Current Folder: /In Box
10 messages, 9 unread.
Compose
File to: Other Folder...
Reply: Author
Trash
Read Unread
U lauwers Dec-91 <No Subject>
U lauwers Dec-91 final report
U Daniel I. Appleb Aug-92 World Income Fund: New Possibilities
U Keith Lantz 26-Oct ACME and Paine-Webber
U Demo Meister 18-Dec 100,000 bushels of OIM at 15-25 premium!
U Jennifer Steel 02-Feb Apologies
U Murray Demo 24-May European FX fluctuations
U Mark Van Note 10-Aug Variable Life Insurance
U Jennifer Steel 20-Aug Atherton selection
Subject: meteor measurement tool
From: Lester Ludwig <lfl>
Date: Tue May 19 18:41:36 1992
To: lauwers
Vicor Video Enclosure
(Press Right Mouse Button for Options)
Video File System: /usr/spool/alfalfa/tmp/OM.1249.7
File Edit
Rewind
Size: 0:54 min.
Pause
Share: stdin
Add Save Load Print Text Clear Grab Regrab Quit
BOB:
LOOK AT THIS DATA!
• YES! I see the problem
Tom Gruber
Bob Lake
Video Phone

FIGURE 2B

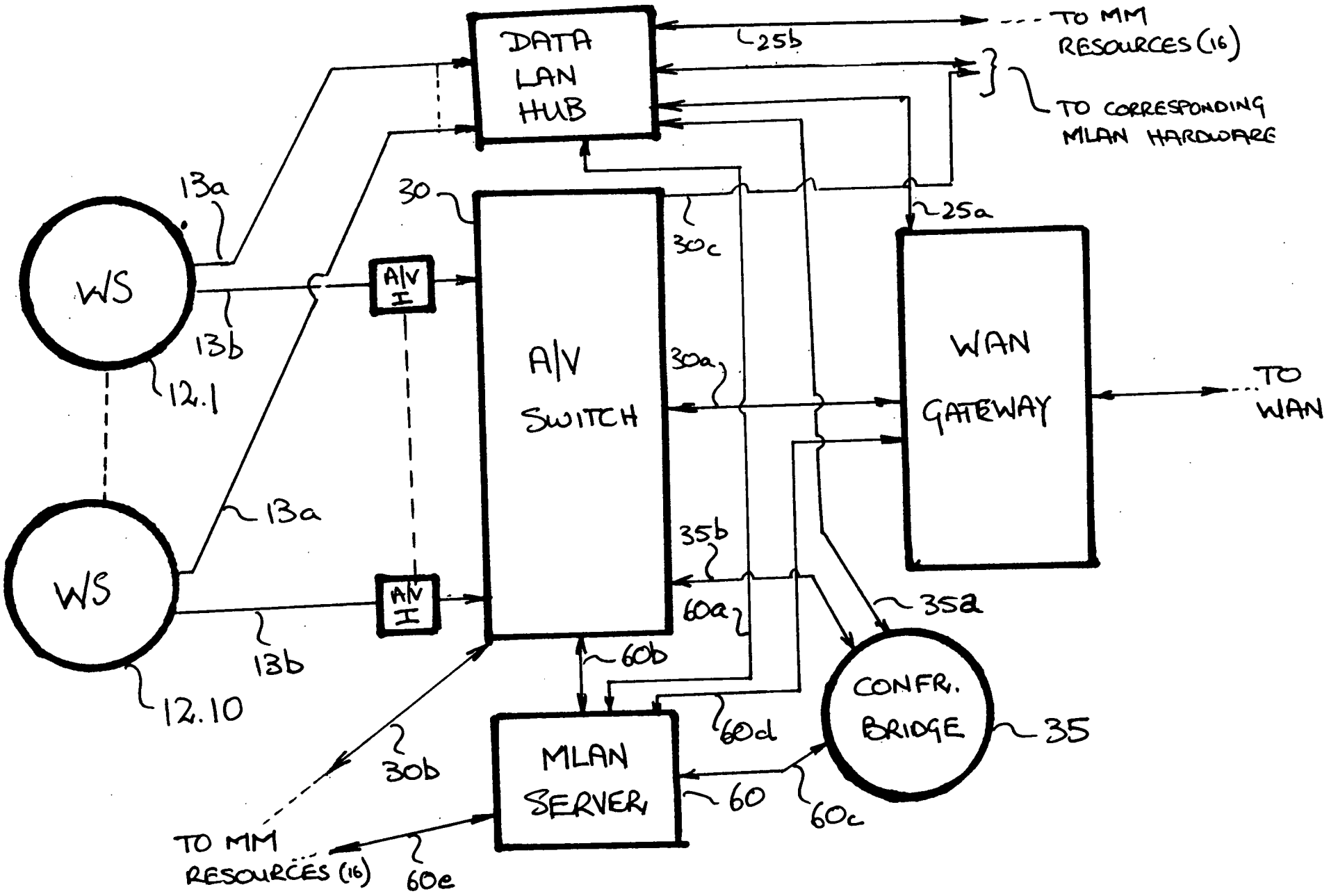


FIGURE 3

0866460

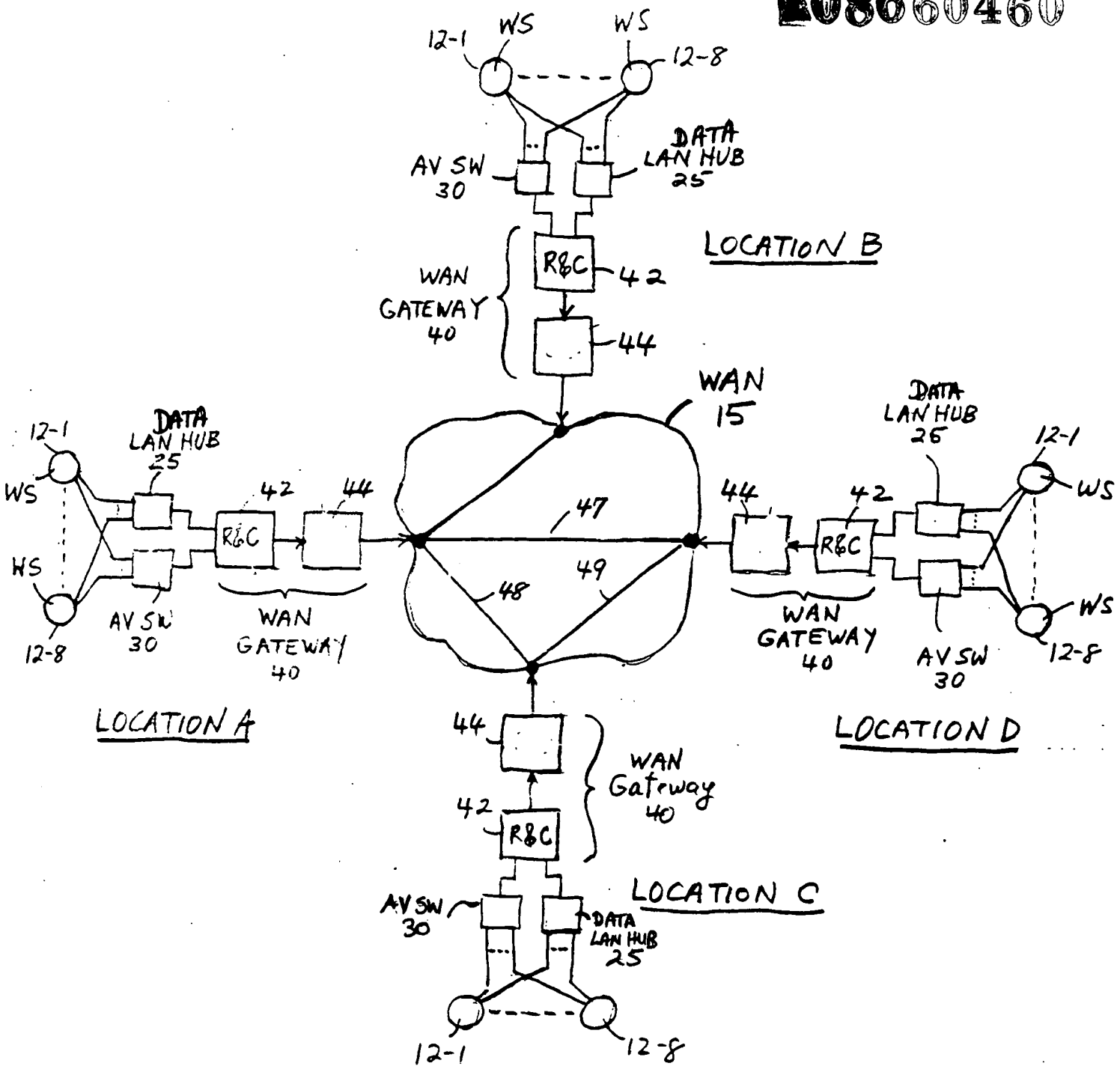

12-1
WS
WS
12-8
AV SW 30
DATA LAN HUB 25
LOCATION B
WAN GATEWAY 40
R&C
42
44
WAN 15
DATA LAN HUB 25
12-1
WS
WS
12-8
AV SW 30
42
44
R&C
WAN GATEWAY 40
47
48
49
44
42
R&C
WAN GATEWAY 40
DATA LAN HUB 26
12-1
WS
WS
12-8
AV SW 30
LOCATION A
LOCATION D
44
42
R&C
WAN Gateway 40
LOCATION C
AV SW 30
DATA LAN HUB 25
12-1
12-8

Fig. 4

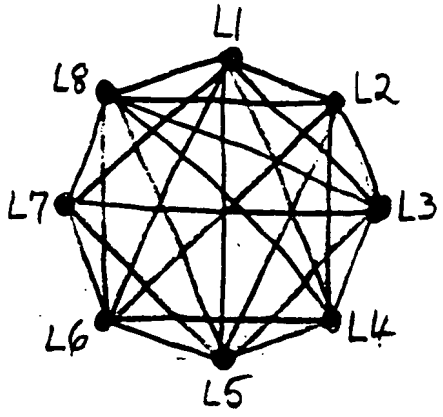


FIG. 5

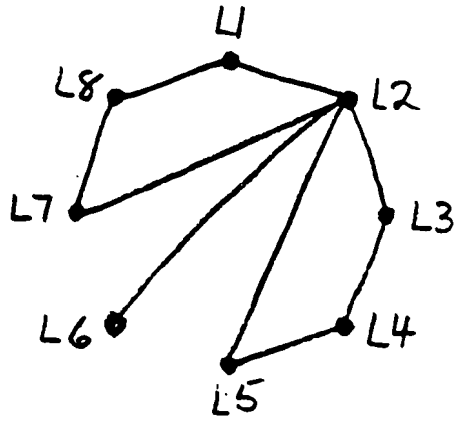


FIG. 6

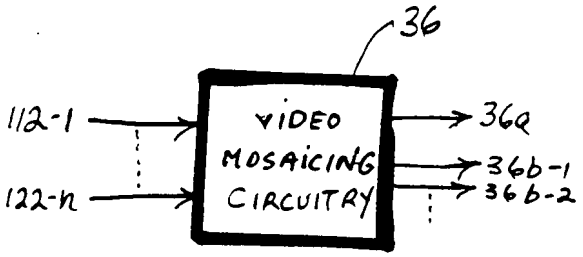


FIG. 7

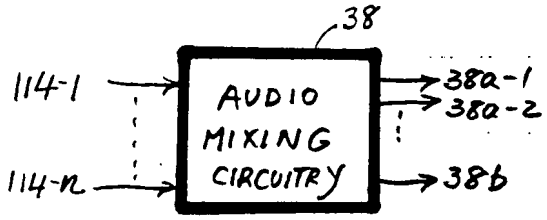


FIG. 9

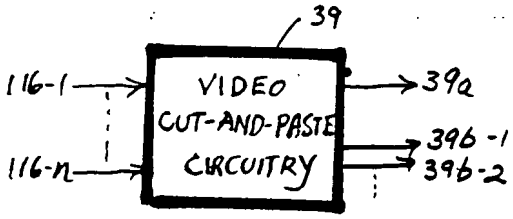


FIG. 10

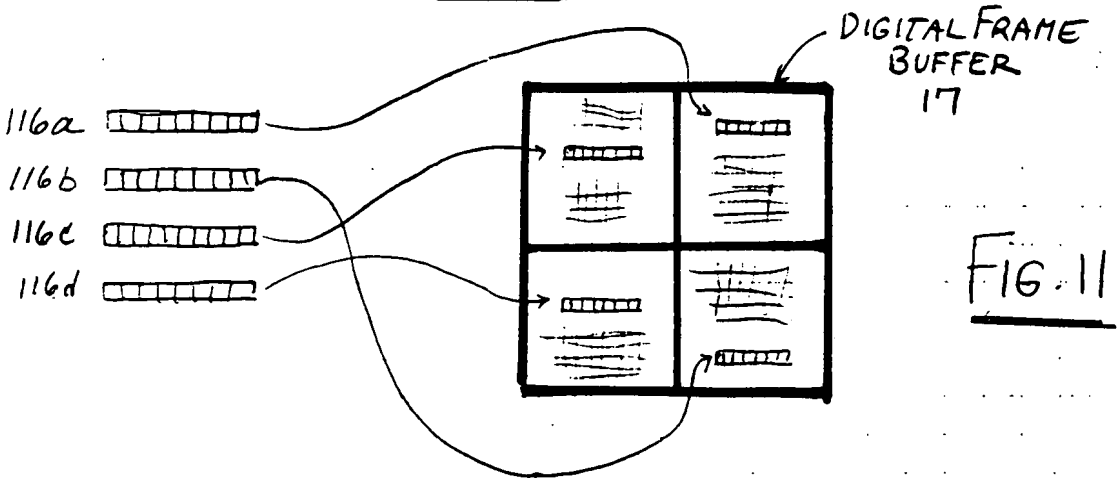


FIG. 11

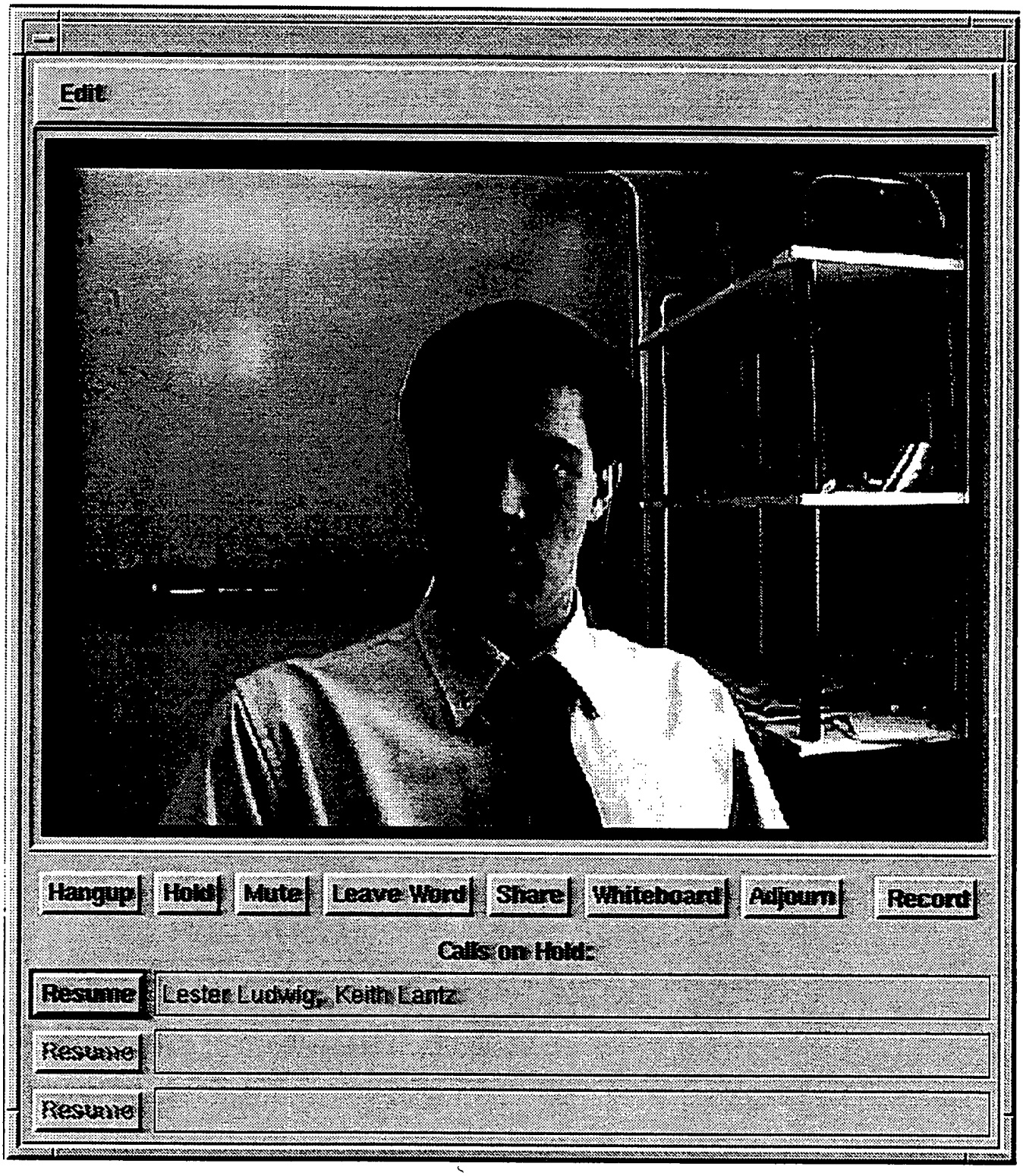

Edit
Hangup
Hold
Mute
Leave Word
Share
Whiteboard
Adjourn
Record
Calls on Hold:
Resume
Lester Ludwig, Keith Eartz
Resume
Resume

Fig 8A

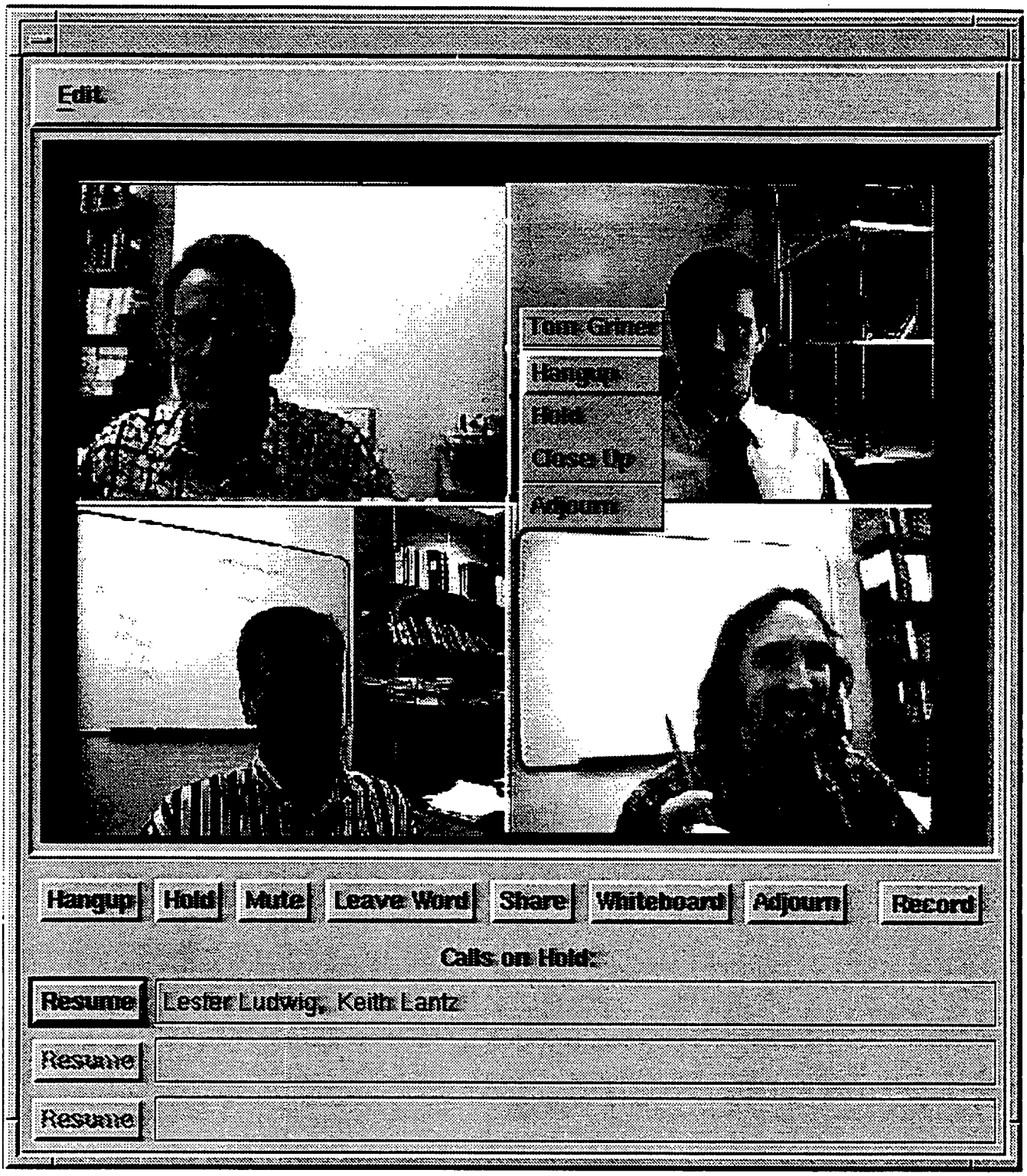

Edit
Tom Grimes
Hangup
Hold
Close Up
Adjourn
Hangup
Hold
Mute
Leave Word
Share
Whiteboard
Adjourn
Record
Calls on Hold:
Resume
Lester Ludwig, Keith Lantz
Resume
Resume

Fig 8B

Edit
Hangup
Hold
Mute
Leave Word
Share
Whiteboard
Record
Calls on Hold:
Resume
Lester Ludwig, Keith Lantz
Resume
Resume
Shell
TEG
maker
wingz
Calculator
pix
VCR
Rolodex
VideoPhone
VPhone-test
Editor
Print
ColorPrint
SunPC
In Box
Collaboration Initiator
File
Edit
Options
Help
Grimer
Lauwers
Lantz
Ludwig
Lake
Van Note
Steel
Kindon
Venner
Kennedy
Call
Add
Mail
Share
Whiteboard
Messages
Telephone

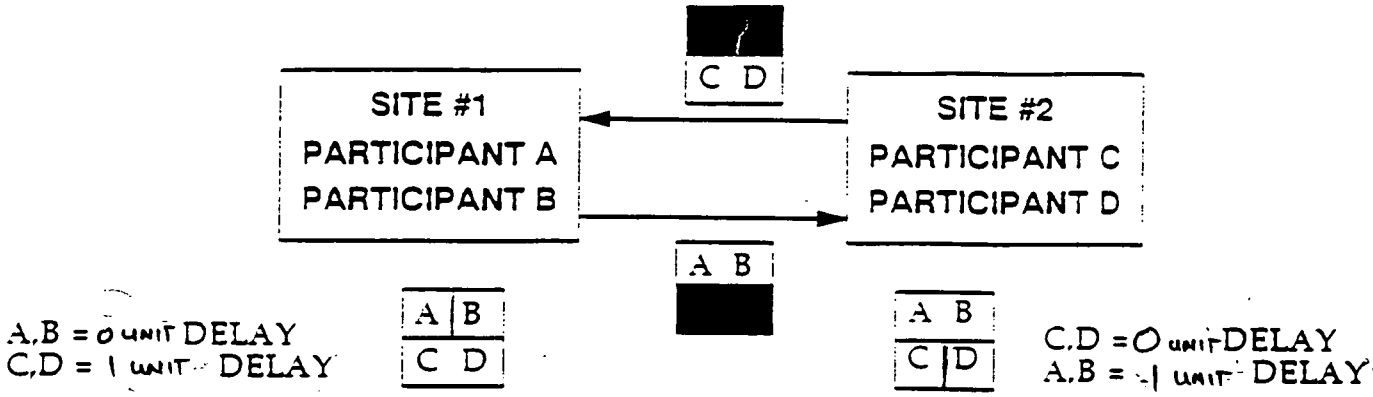
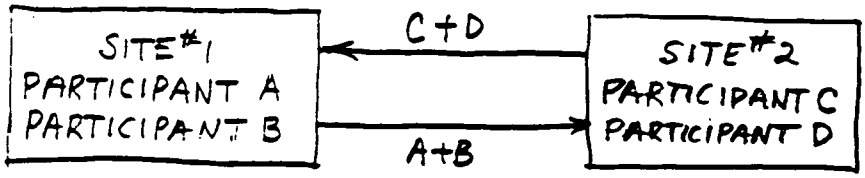


FIGURE 12A



A hears B + C + D
B hears A + C + D

A,B = 0 UNIT DELAY
C,D = 1 UNIT DELAY

C hears A + B + D
D hears A + B + C

C,D = 0 UNIT DELAY
A,B = 1 UNIT DELAY

FIGURE 12B

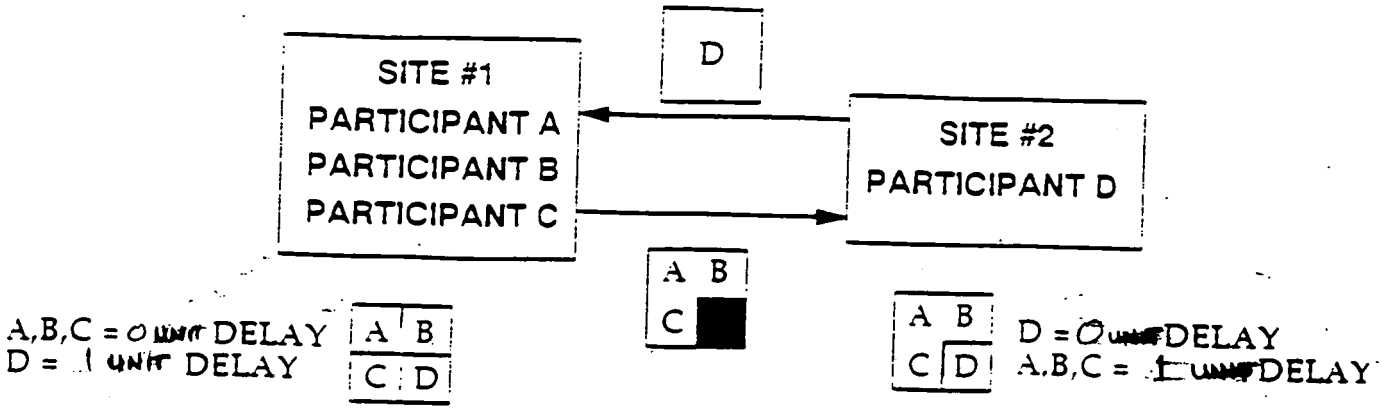


FIGURE 13A

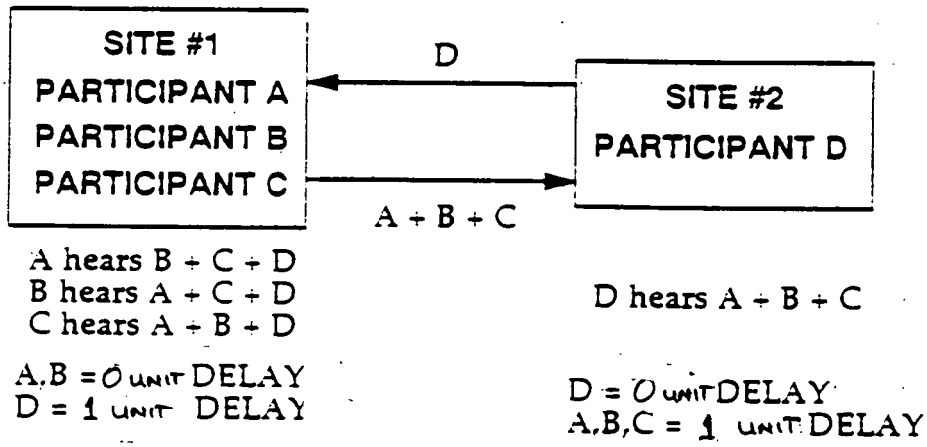


FIGURE 13B

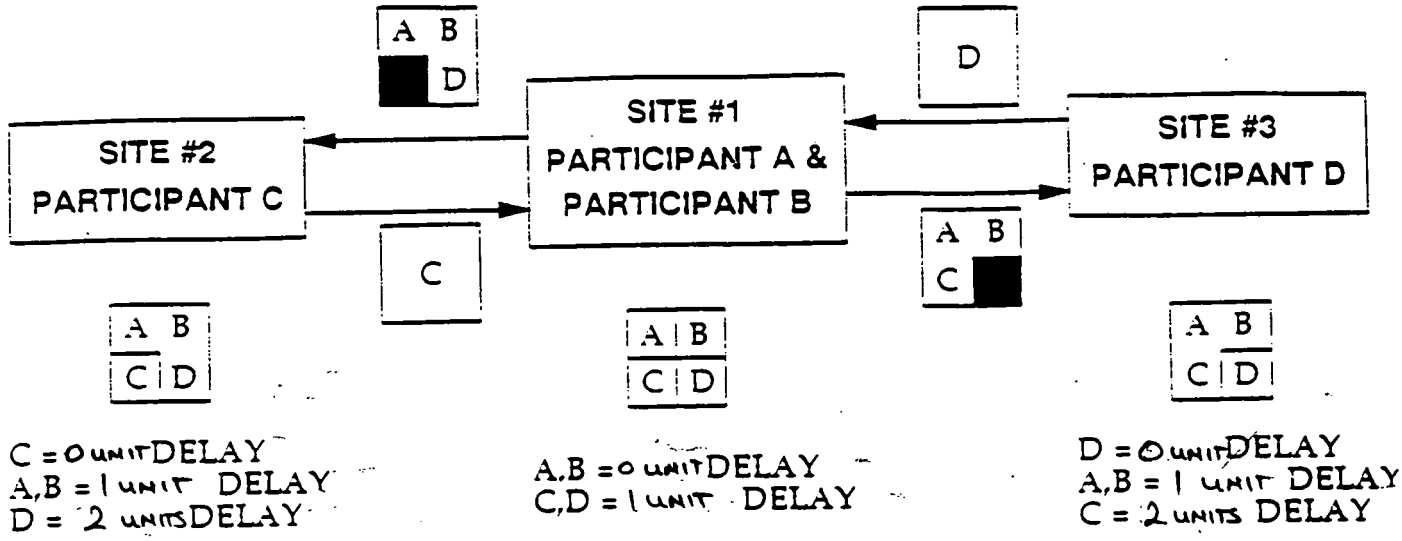


FIGURE 14A

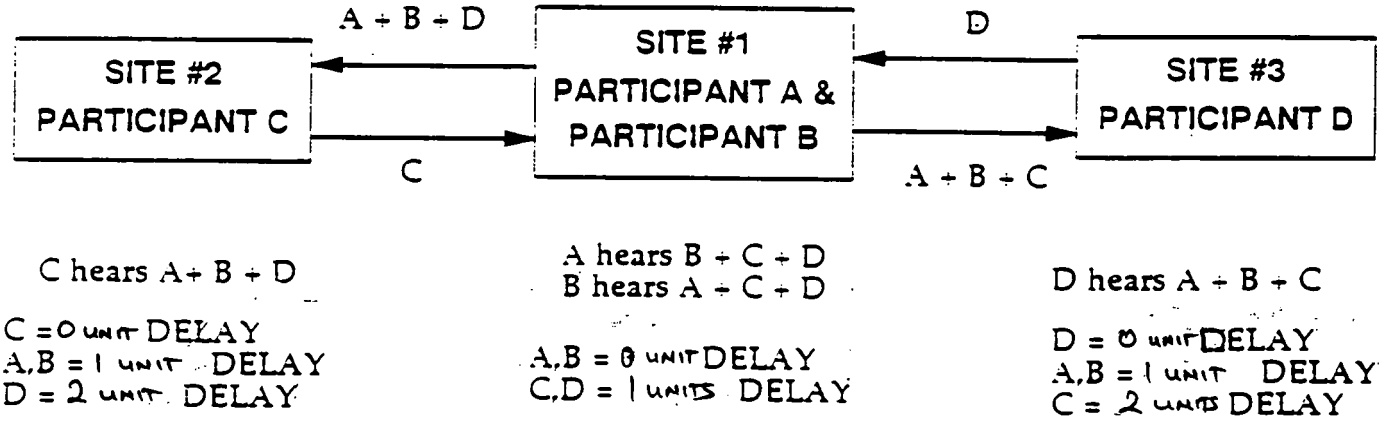


FIGURE 14B

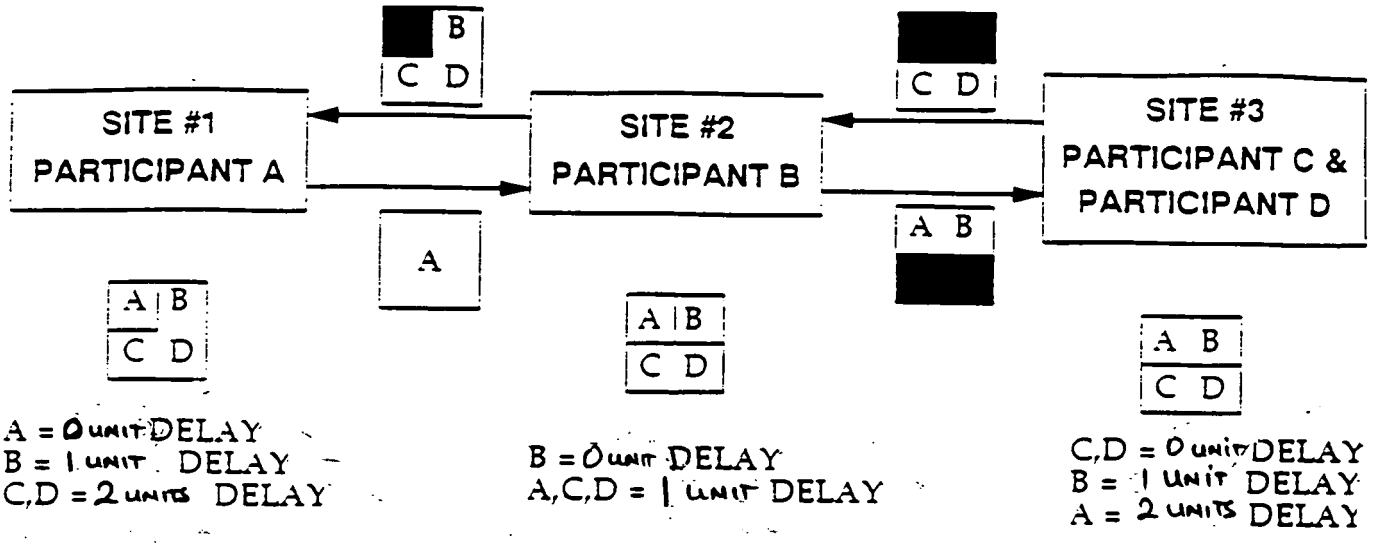


FIGURE 15A

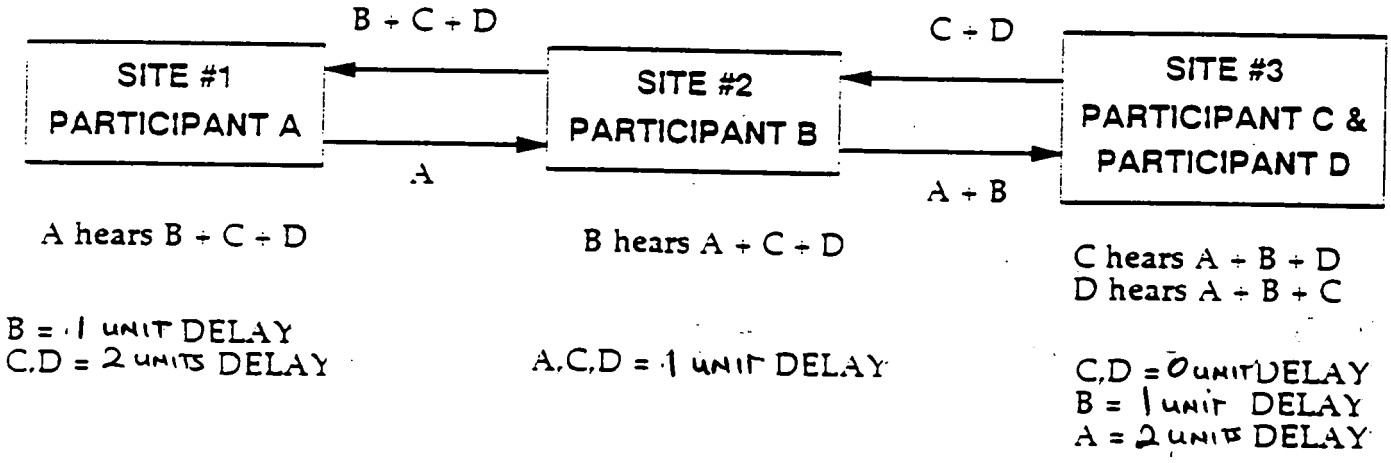


FIGURE 15B

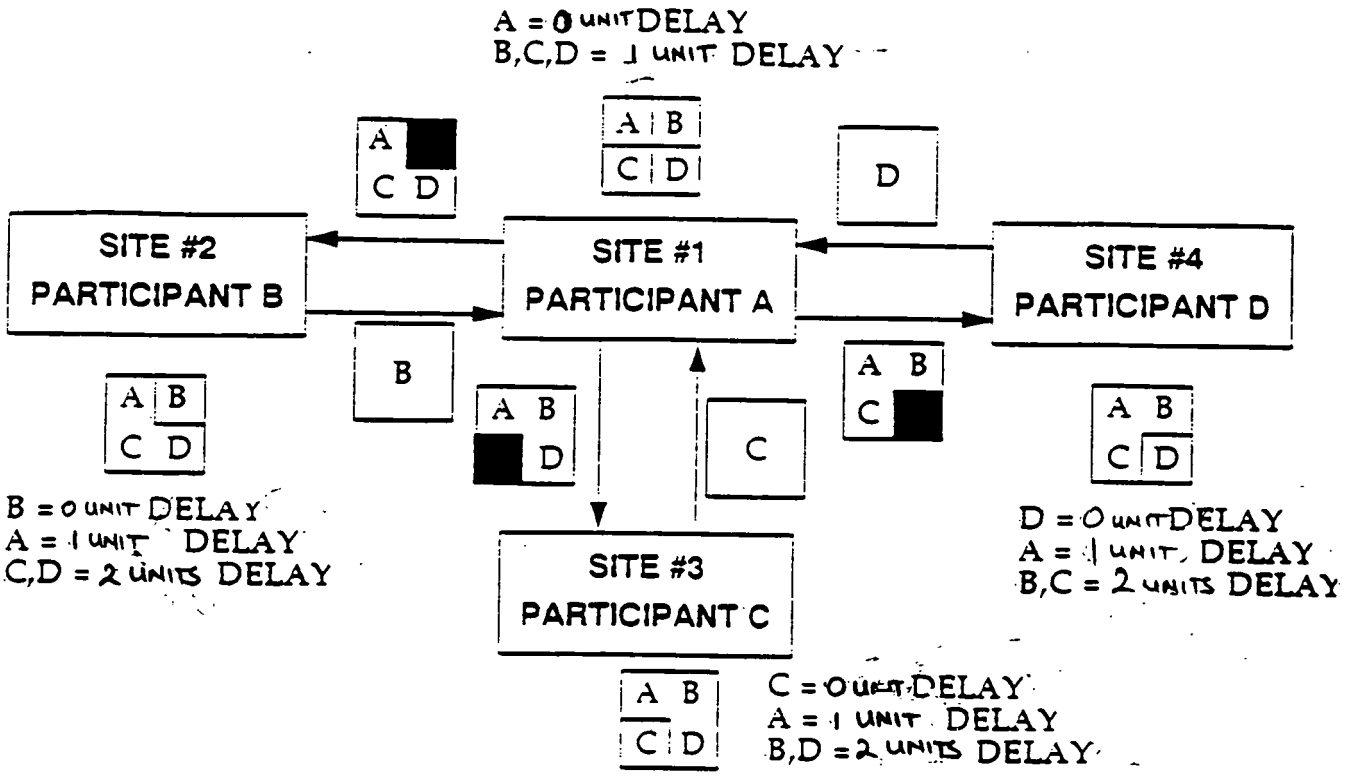

A = 0 UNIT DELAY
B,C,D = 1 UNIT DELAY
A B
C D
A
C D
D
SITE #2
PARTICIPANT B
SITE #1
PARTICIPANT A
SITE #4
PARTICIPANT D
B
A B
C
A B
C D
A B
C D
A B
C D
C
B = 0 UNIT DELAY
A = 1 UNIT DELAY
C,D = 2 UNITS DELAY
D = 0 UNIT DELAY
A = 1 UNIT DELAY
B,C = 2 UNITS DELAY
SITE #3
PARTICIPANT C
A B
C D
C = 0 UNIT DELAY
A = 1 UNIT DELAY
B,D = 2 UNITS DELAY

FIGURE 16

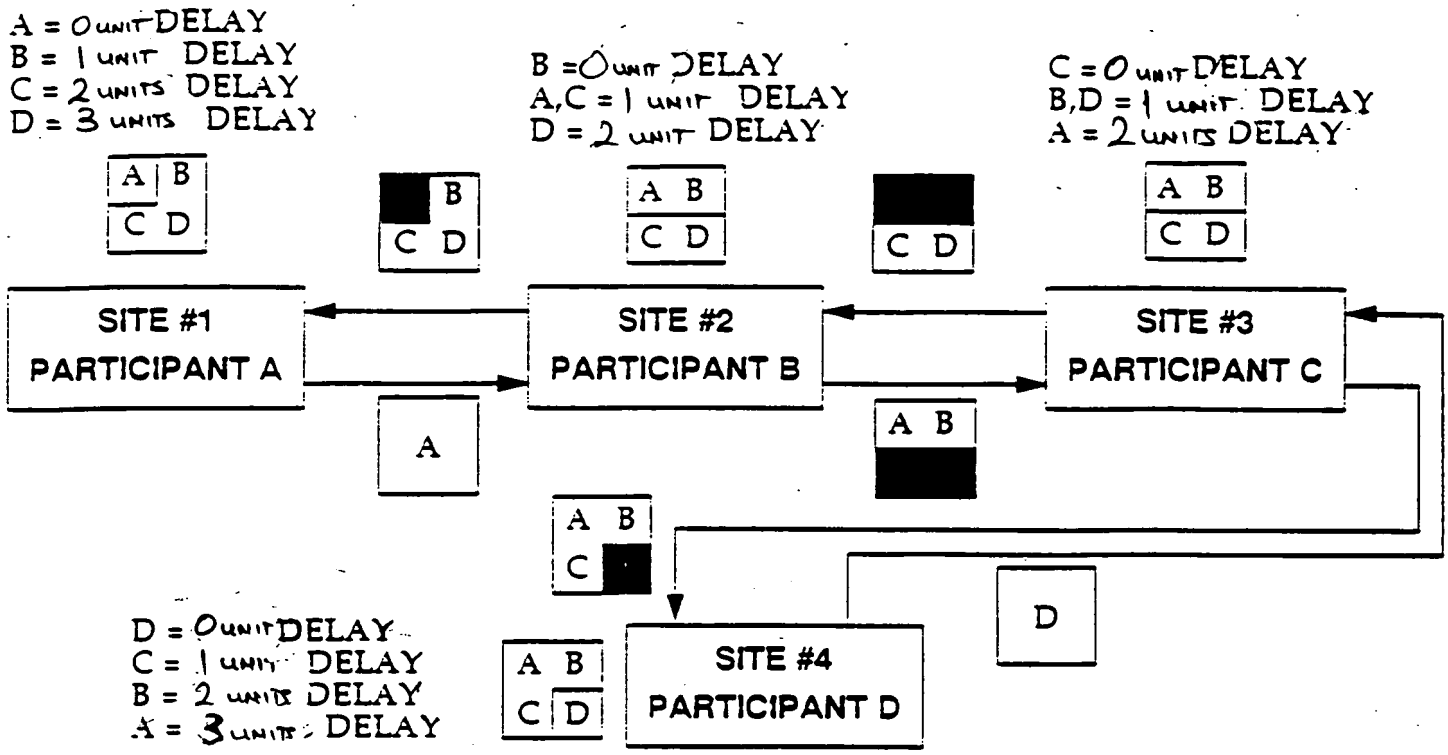


FIGURE 17A

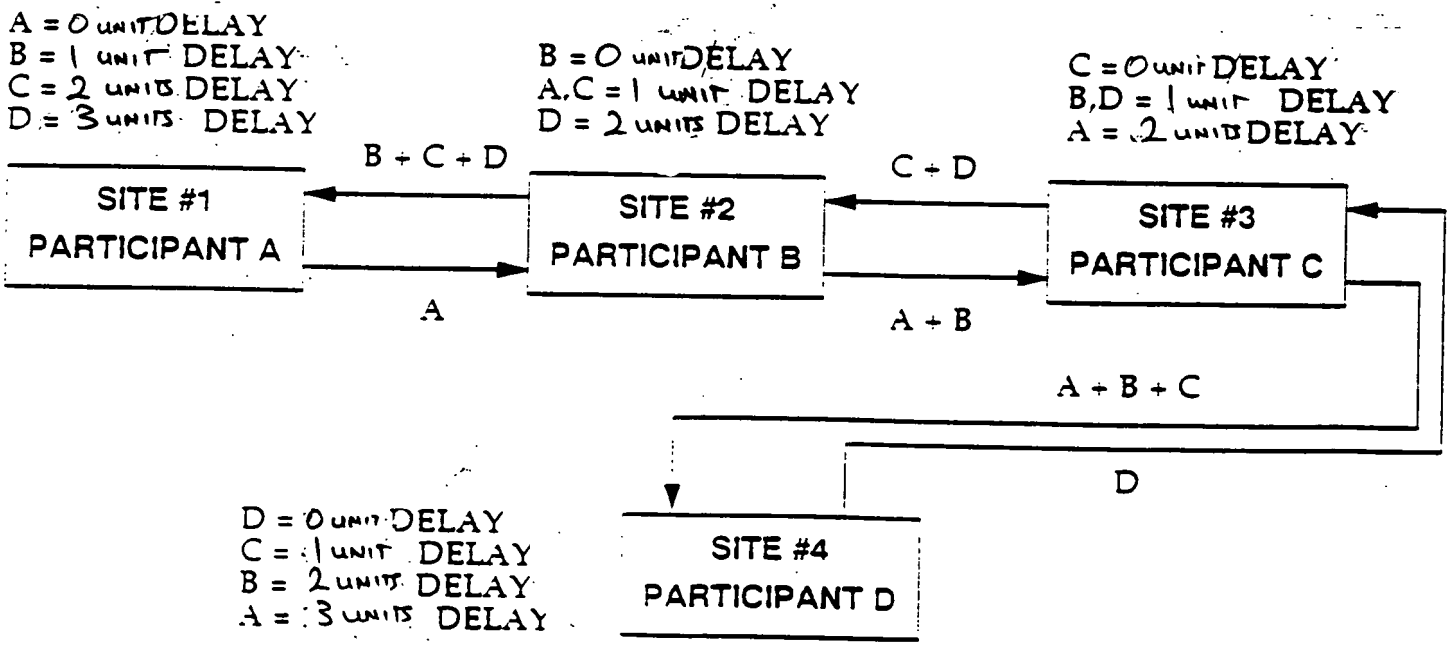


FIGURE 17B

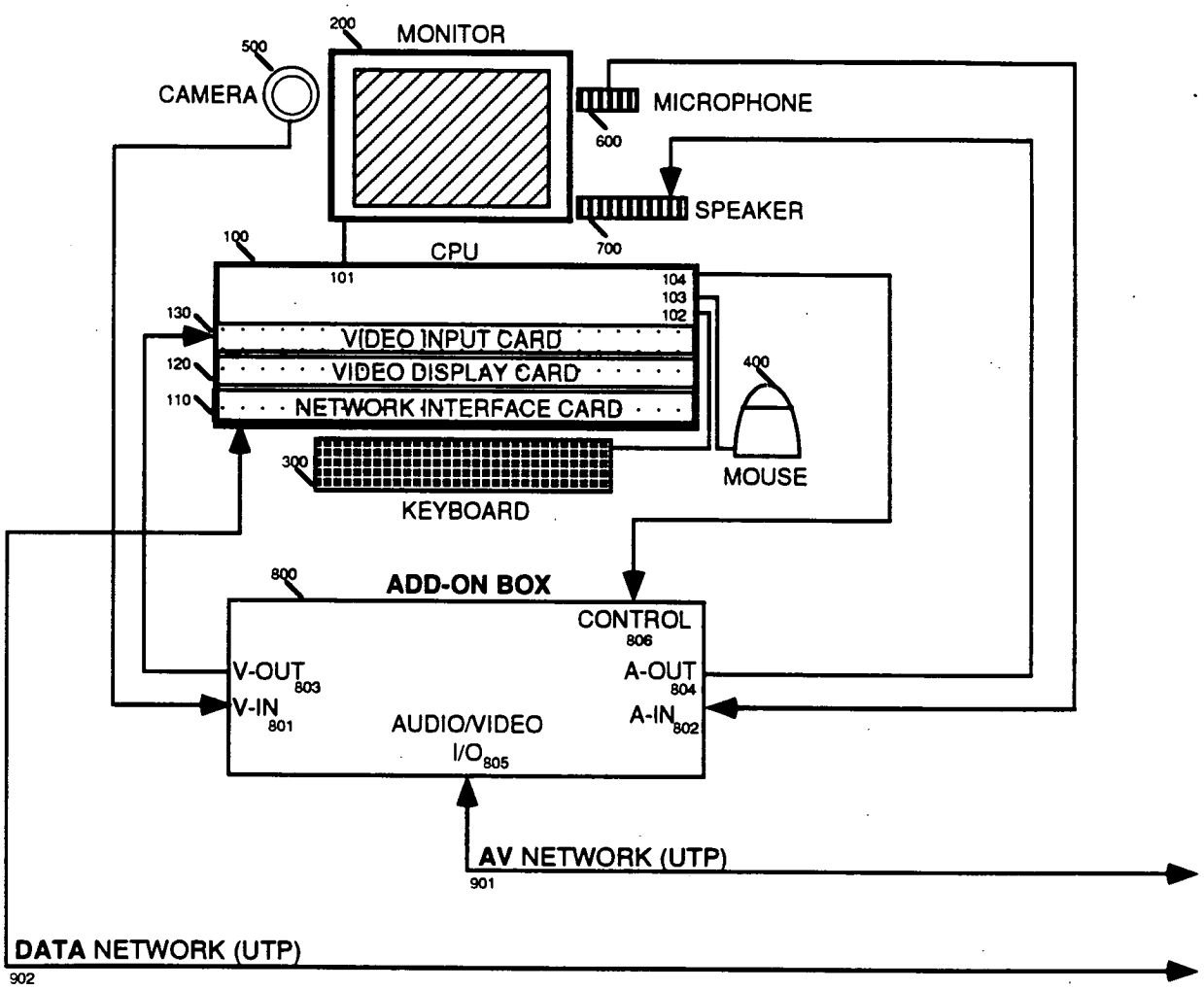

200
MONITOR
500
CAMERA
MICROPHONE
600
SPEAKER
700
100
CPU
101
104
103
102
130
VIDEO INPUT CARD
120
VIDEO DISPLAY CARD
110
NETWORK INTERFACE CARD
400
MOUSE
300
KEYBOARD
800
ADD-ON BOX
CONTROL
806
V-OUT
803
A-OUT
804
V-IN
801
AUDIO/VIDEO
I/O
805
A-IN
802
AV NETWORK (UTP)
901
DATA NETWORK (UTP)
902

Fig. 18A

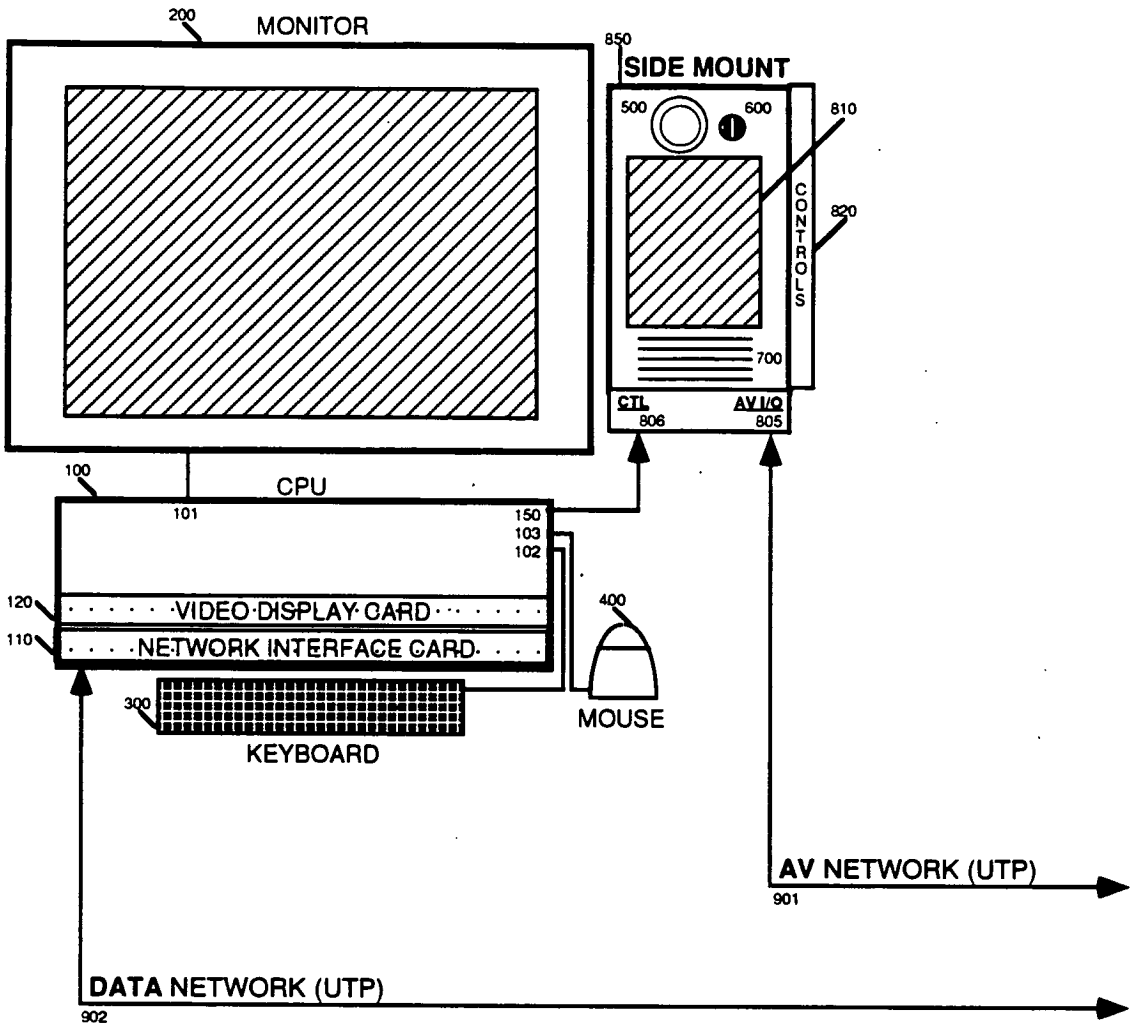

200
MONITOR
850
SIDE MOUNT
500
600
810
820
CONTROLS
700
CTL
806
AV I/O
805
100
CPU
101
150
103
102
120
VIDEO DISPLAY CARD
110
NETWORK INTERFACE CARD
400
300
KEYBOARD
MOUSE
AV NETWORK (UTP)
901
DATA NETWORK (UTP)
902

Fig. 18B

ADD-ON BOX

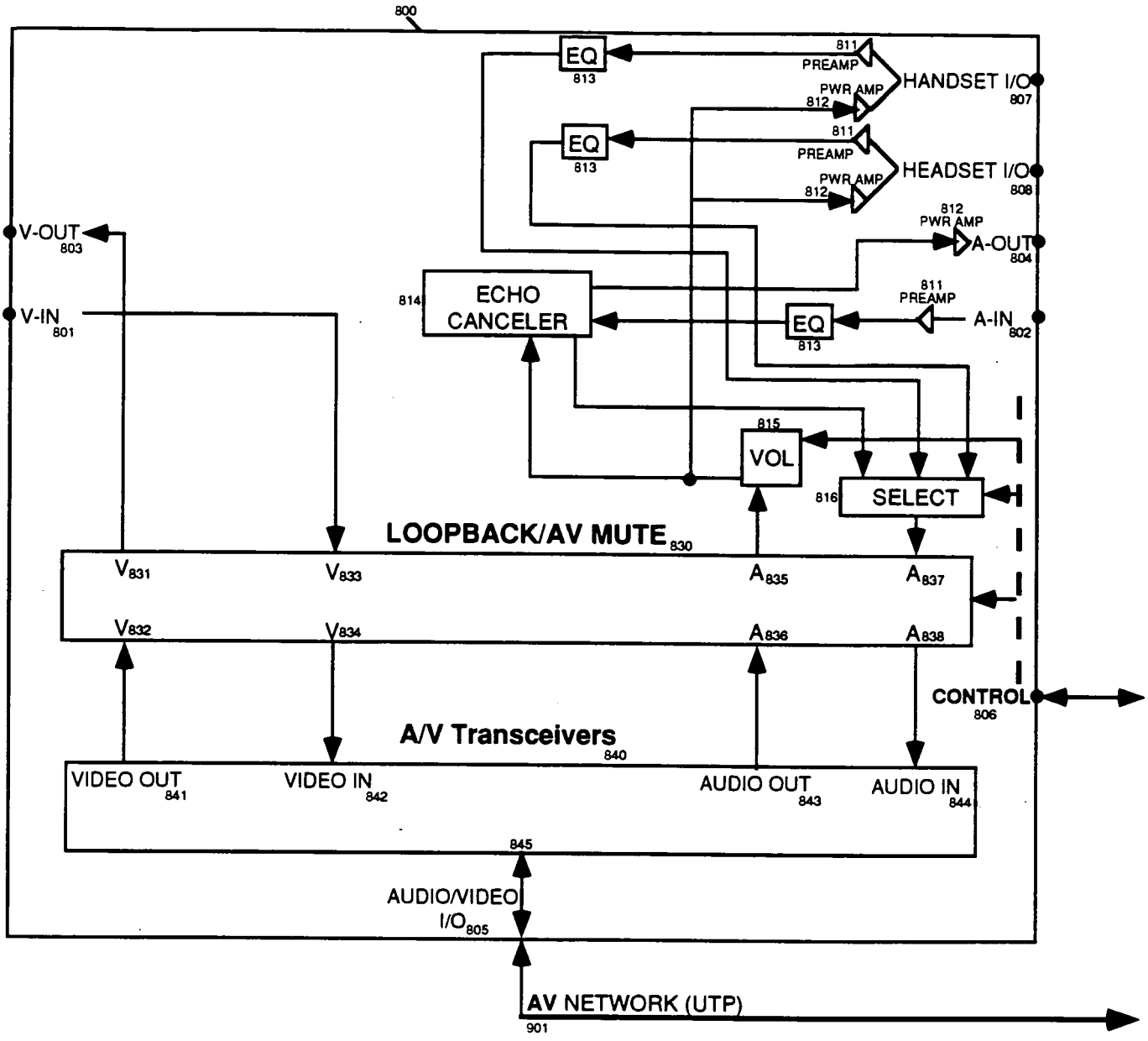


Fig. 19

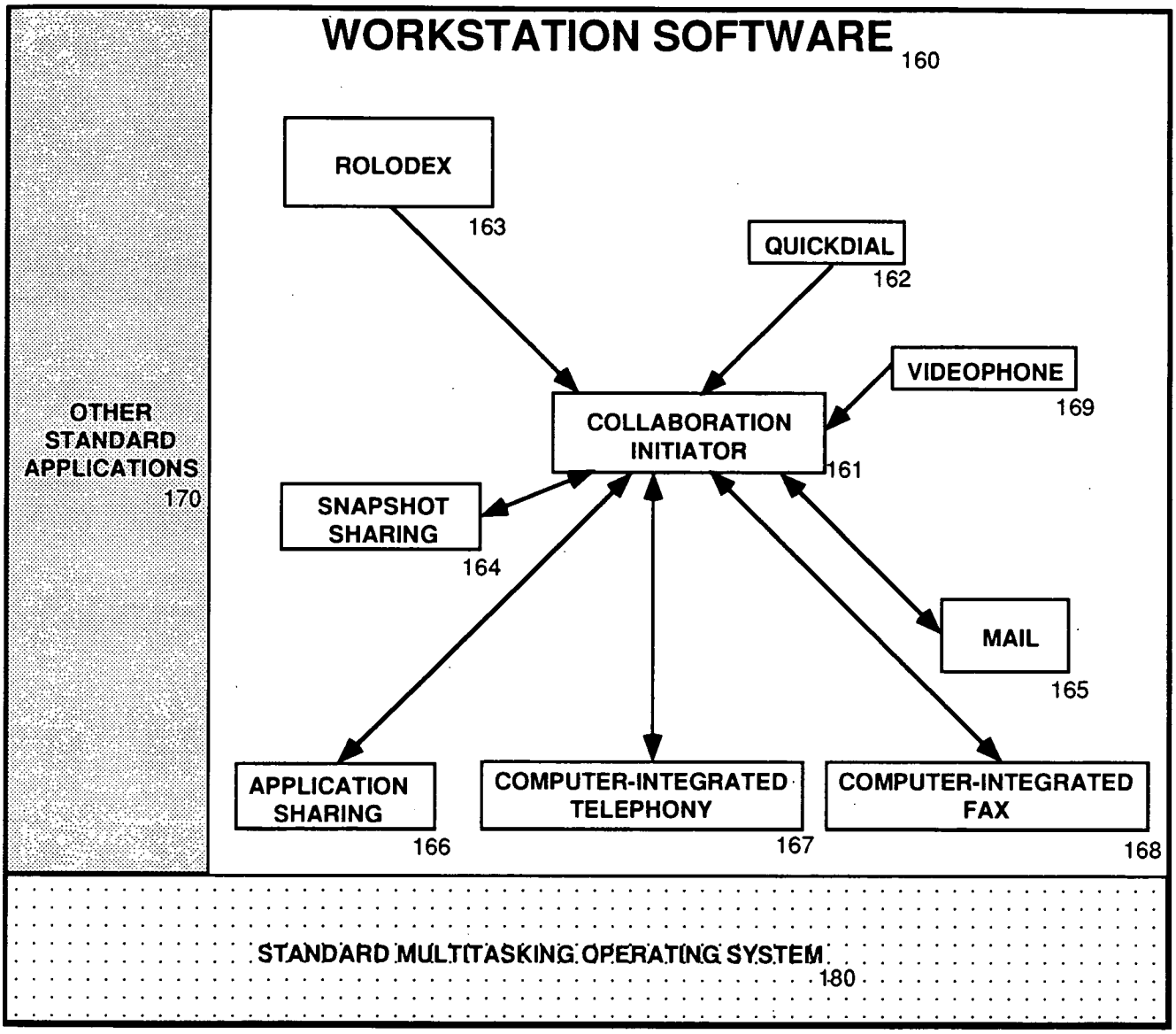

WORKSTATION SOFTWARE
160
ROLODEX
163
QUICKDIAL
162
VIDEOPHONE
169
COLLABORATION INITIATOR
161
OTHER STANDARD APPLICATIONS
170
SNAPSHOT SHARING
164
MAIL
165
APPLICATION SHARING
166
COMPUTER-INTEGRATED TELEPHONY
167
COMPUTER-INTEGRATED FAX
168
STANDARD MULTITASKING OPERATING SYSTEM
180

Fig. 20

08660460

MLAN SERVER
SOFTWARE MODULES

62

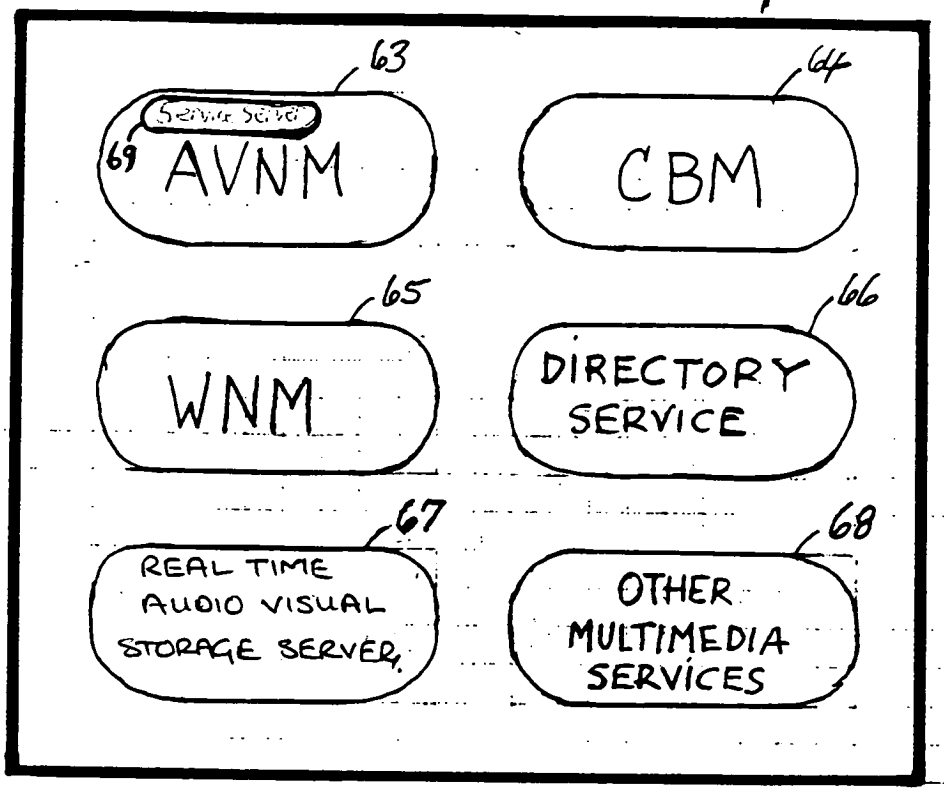


FIG. 21

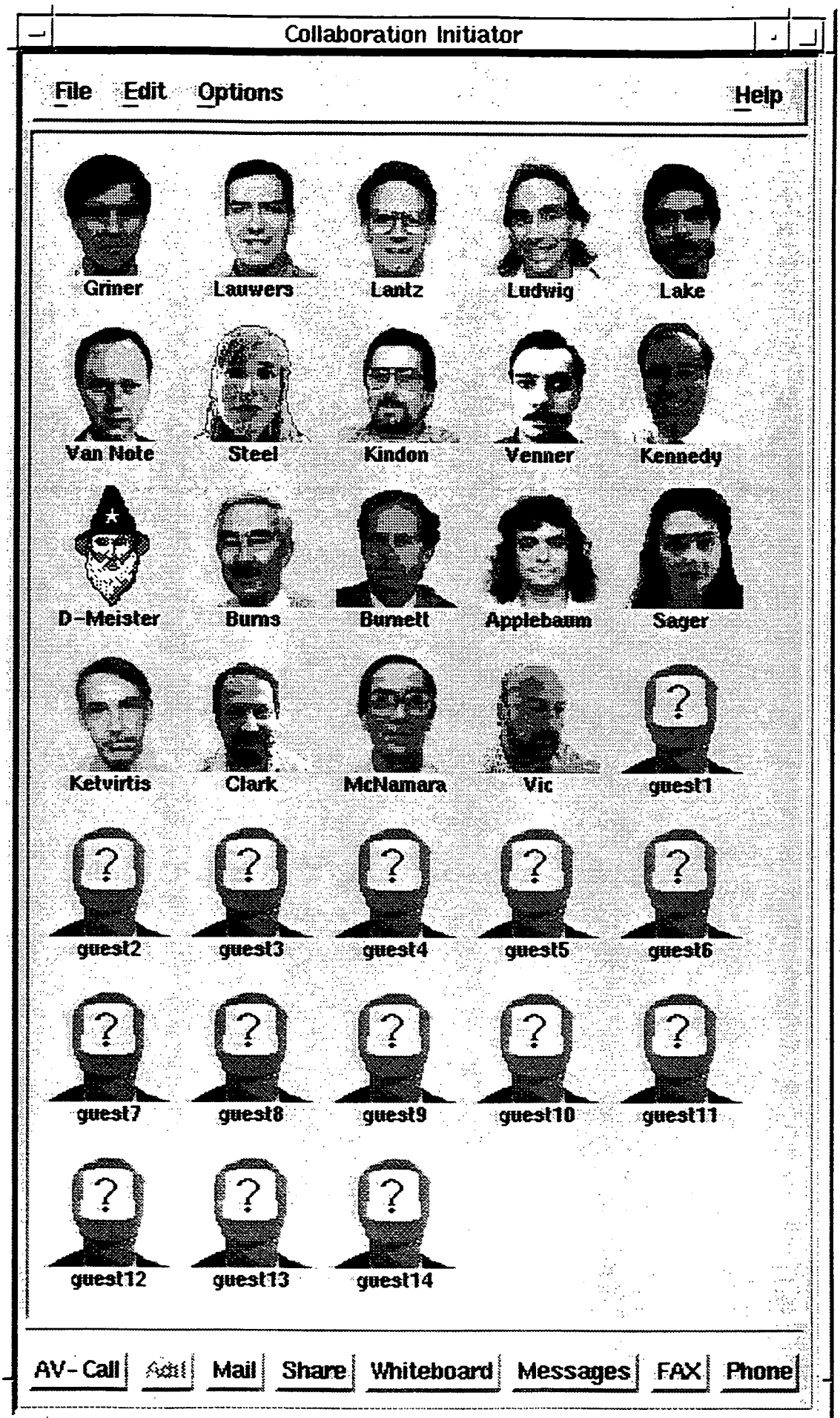

Collaboration Initiator
File
Edit
Options
Help
Griner
Lauwers
Lantz
Ludwig
Lake
Van Note
Steel
Kindon
Venner
Kennedy
D-Meister
Burns
Burnett
Applebaum
Sager
Ketvirtis
Clark
McNamara
Vic
guest1
guest2
guest3
guest4
guest5
guest6
guest7
guest8
guest9
guest10
guest11
guest12
guest13
guest14
AV-Call
Mail
Share
Whiteboard
Messages
FAX
Phone

FIG 22

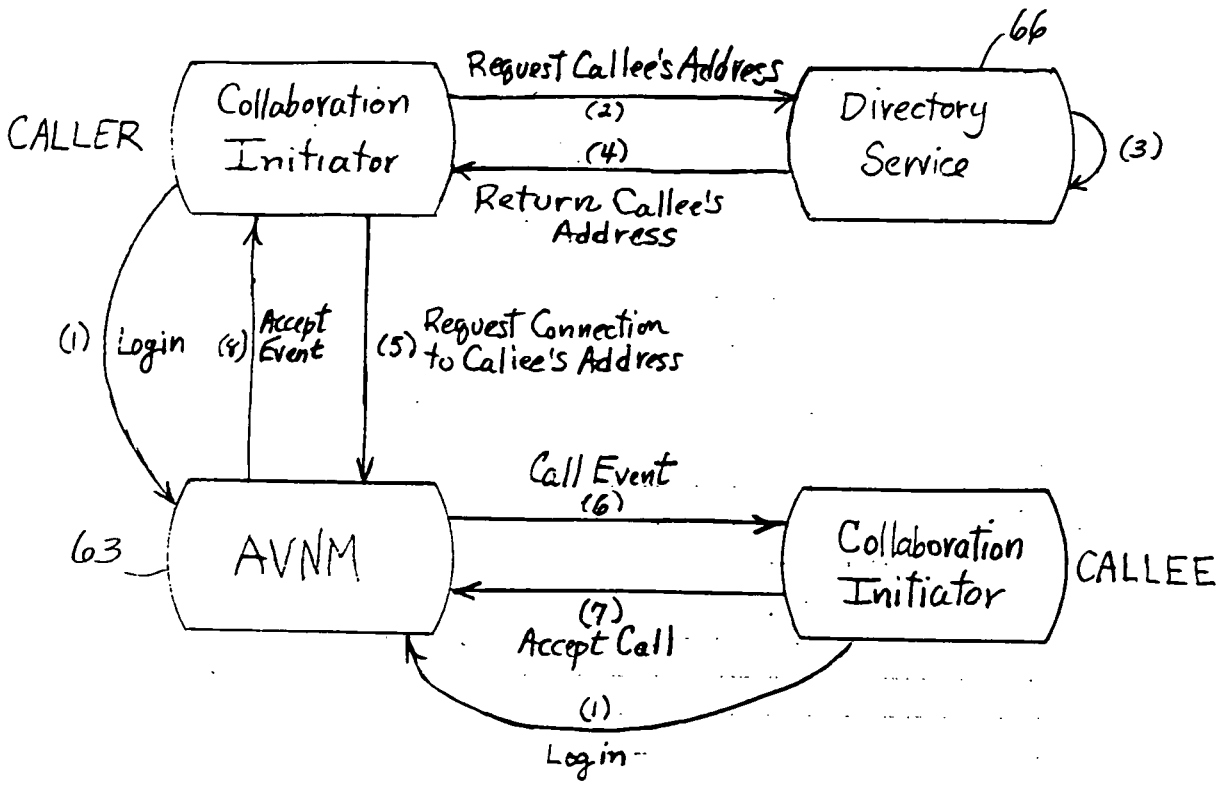

66
Request Callee's Address
(2)
(4)
Return Callee's Address
Collaboration Initiator
CALLER
Directory Service
(3)
(1) Login
(8) Accept Event
(5) Request Connection to Callee's Address
Call Event
(6)
63
AVNM
Collaboration Initiator
CALLEE
(7) Accept Call
(1) Login

FIG. 23

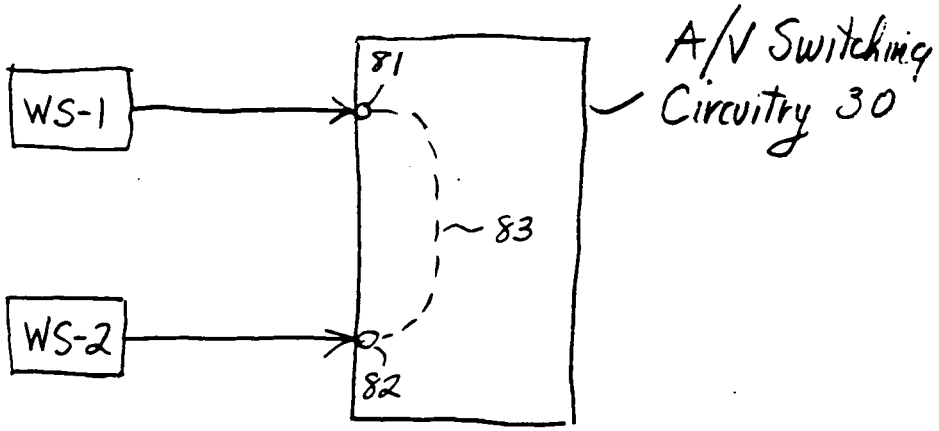

WS-1
WS-2
81
82
83
A/V Switching Circuitry 30

FIG. 24

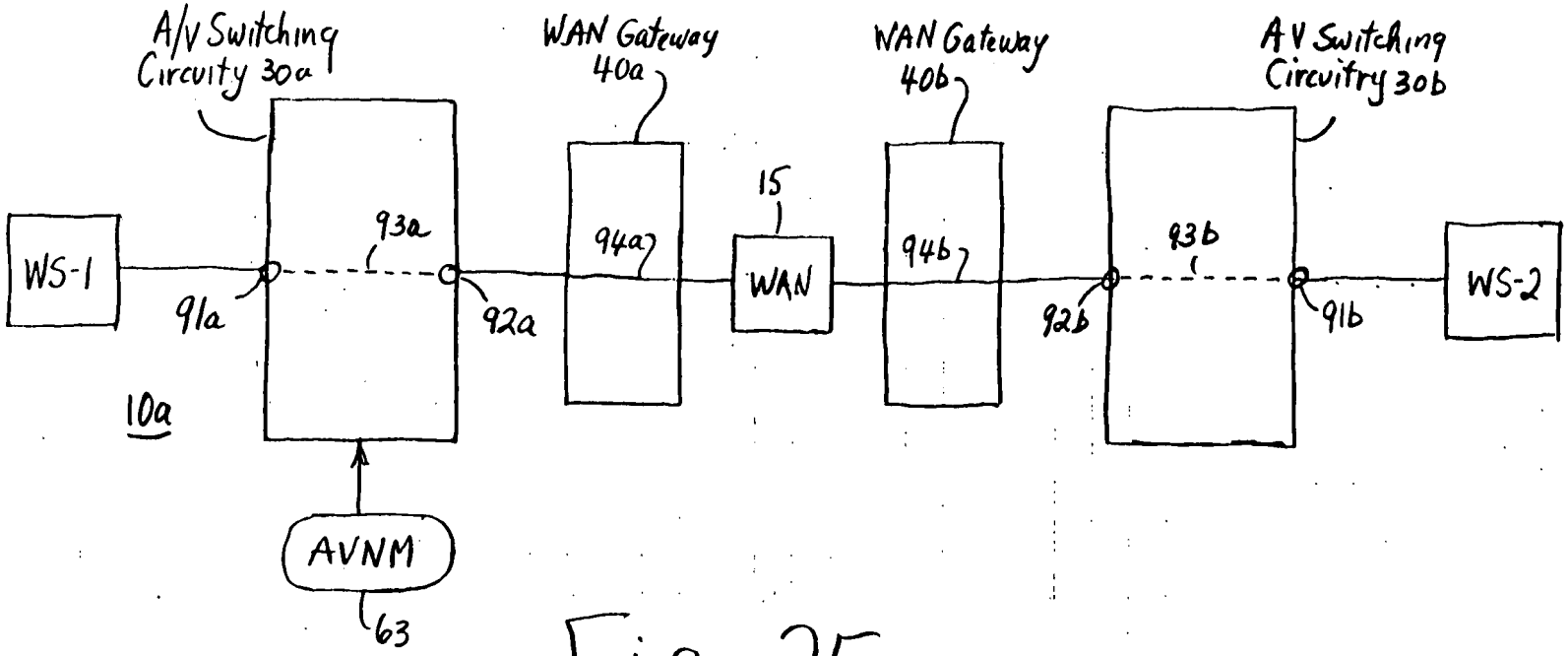


FIG. 25

0866047

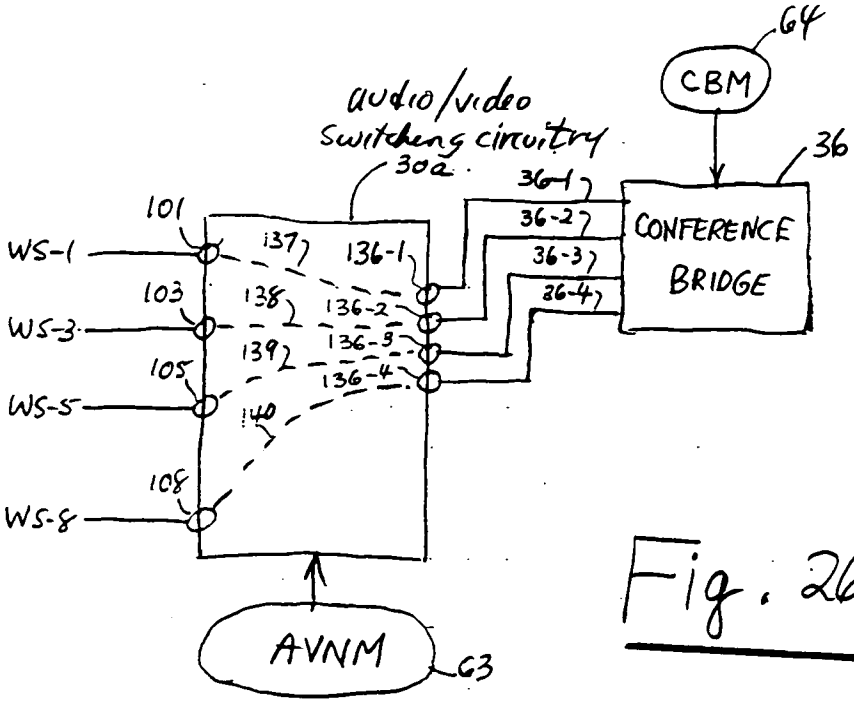

64
CBM
audio/video
switching circuitry
30a
36
36-1
36-2
36-3
36-4
CONFERENCE
BRIDGE
101
WS-1
137
136-1
103
WS-3
138
136-2
136-3
105
WS-5
139
136-4
140
108
WS-8
AVNM
63

Fig. 26

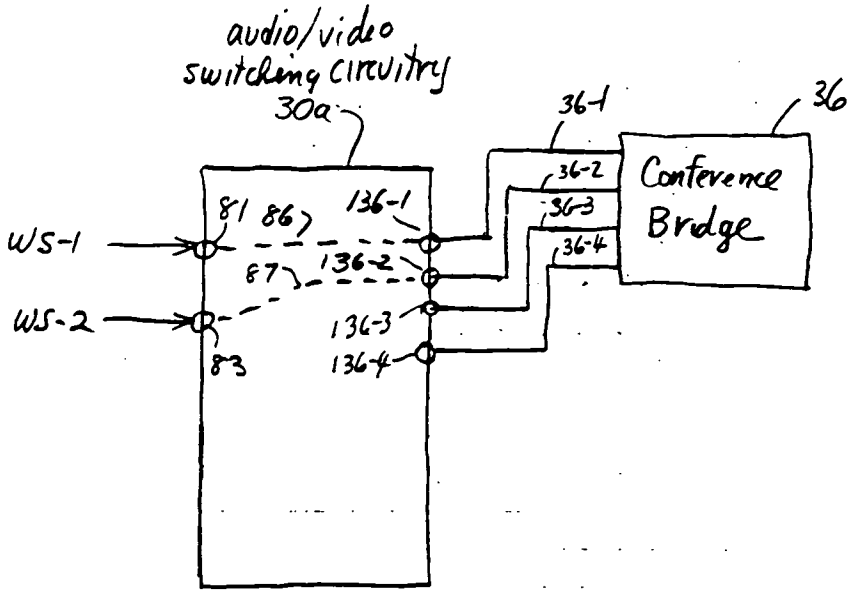

audio/video
switching circuitry
30a
36-1
36
Conference
Bridge
36-2
36-3
36-4
81
86
87
136-1
136-2
136-3
136-4
WS-1
WS-2
83

FIG. 27

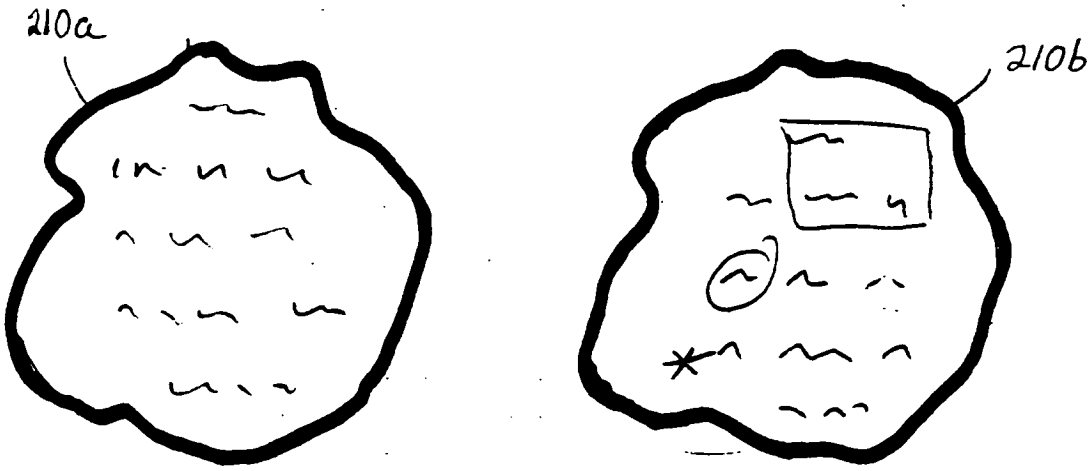


FIGURE 28

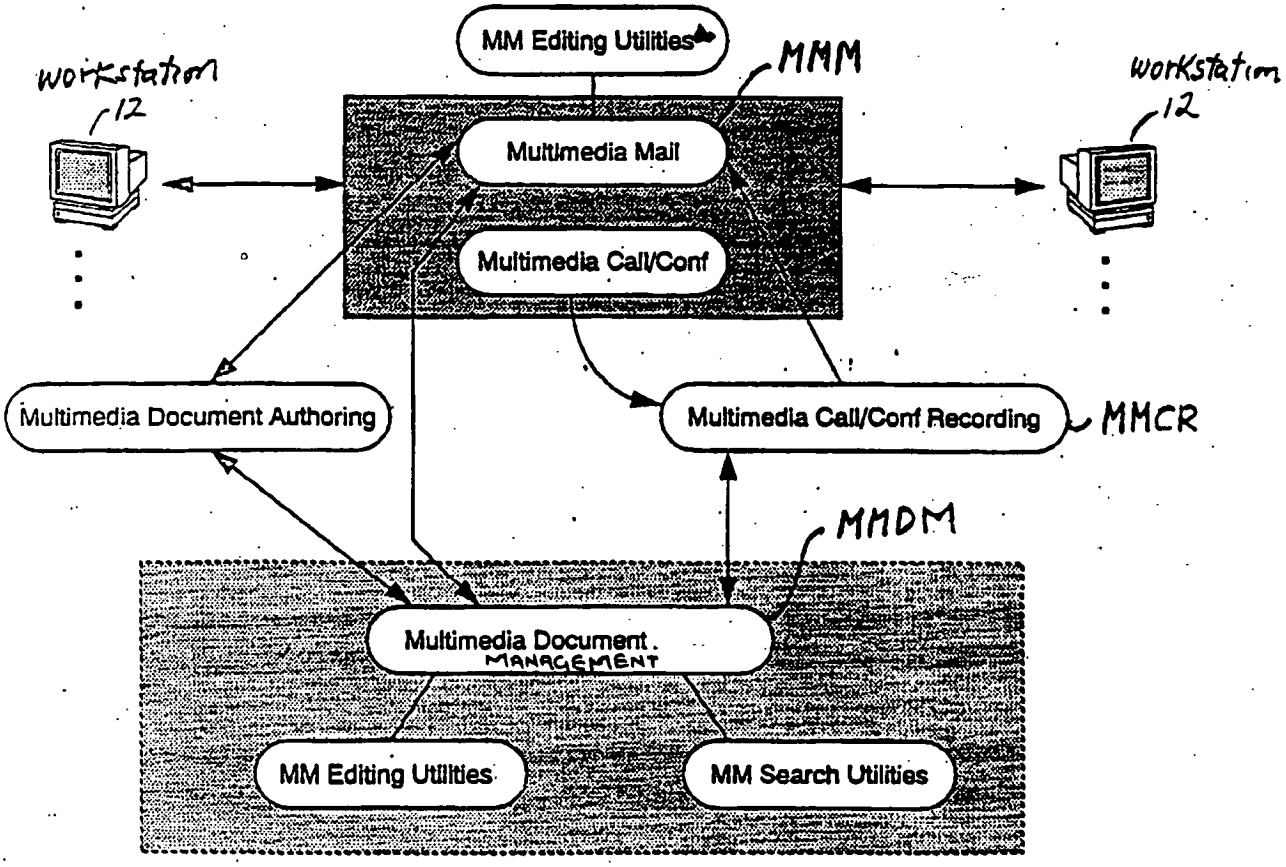


FIGURE 29

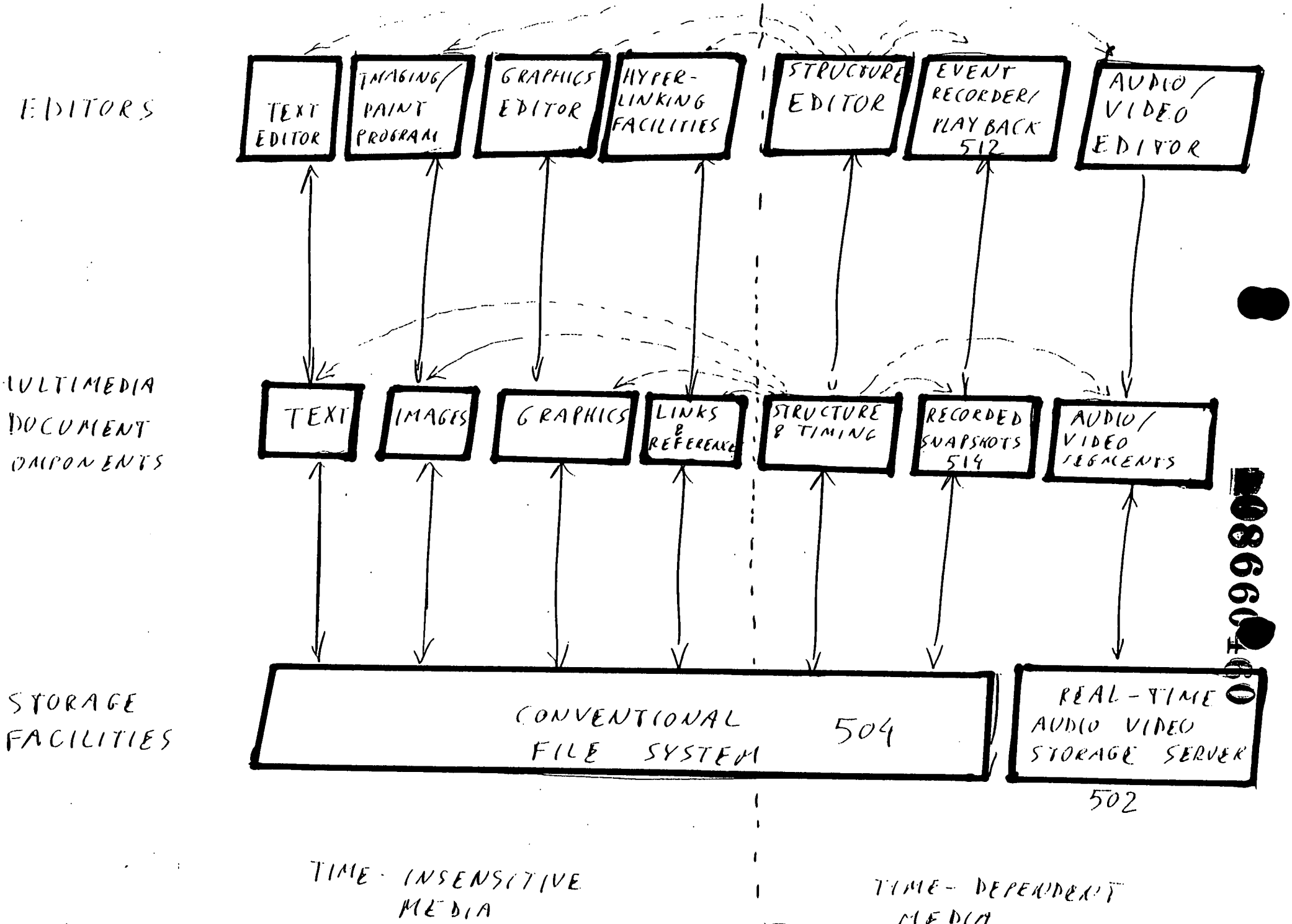

EDITORS
TEXT EDITOR
IMAGING/ PAINT PROGRAM
GRAPHICS EDITOR
HYPER-LINKING FACILITIES
STRUCTURE EDITOR
EVENT RECORDER/ PLAY BACK 512
AUDIO/ VIDEO EDITOR
MULTIMEDIA DOCUMENT COMPONENTS
TEXT
IMAGES
GRAPHICS
LINKS & REFERENCE
STRUCTURE & TIMING
RECORDED SNAPSHOTS 514
AUDIO/ VIDEO SEGMENTS
STORAGE FACILITIES
CONVENTIONAL FILE SYSTEM 504
REAL-TIME AUDIO VIDEO STORAGE SERVER 502
TIME-INSENSITIVE MEDIA
TIME-DEPENDENT MEDIA

FIGURE 30

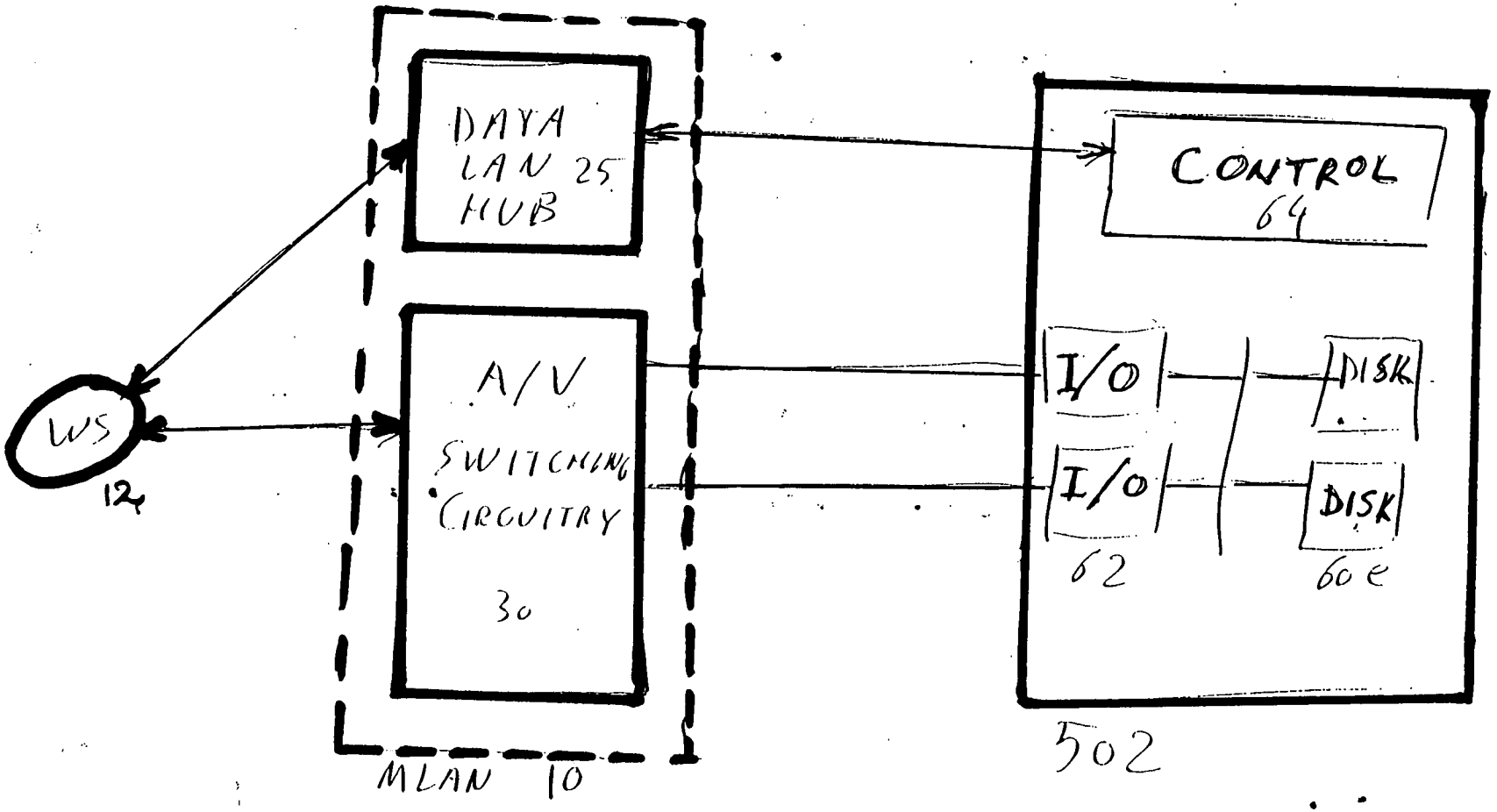


FIGURE 31A

0866460

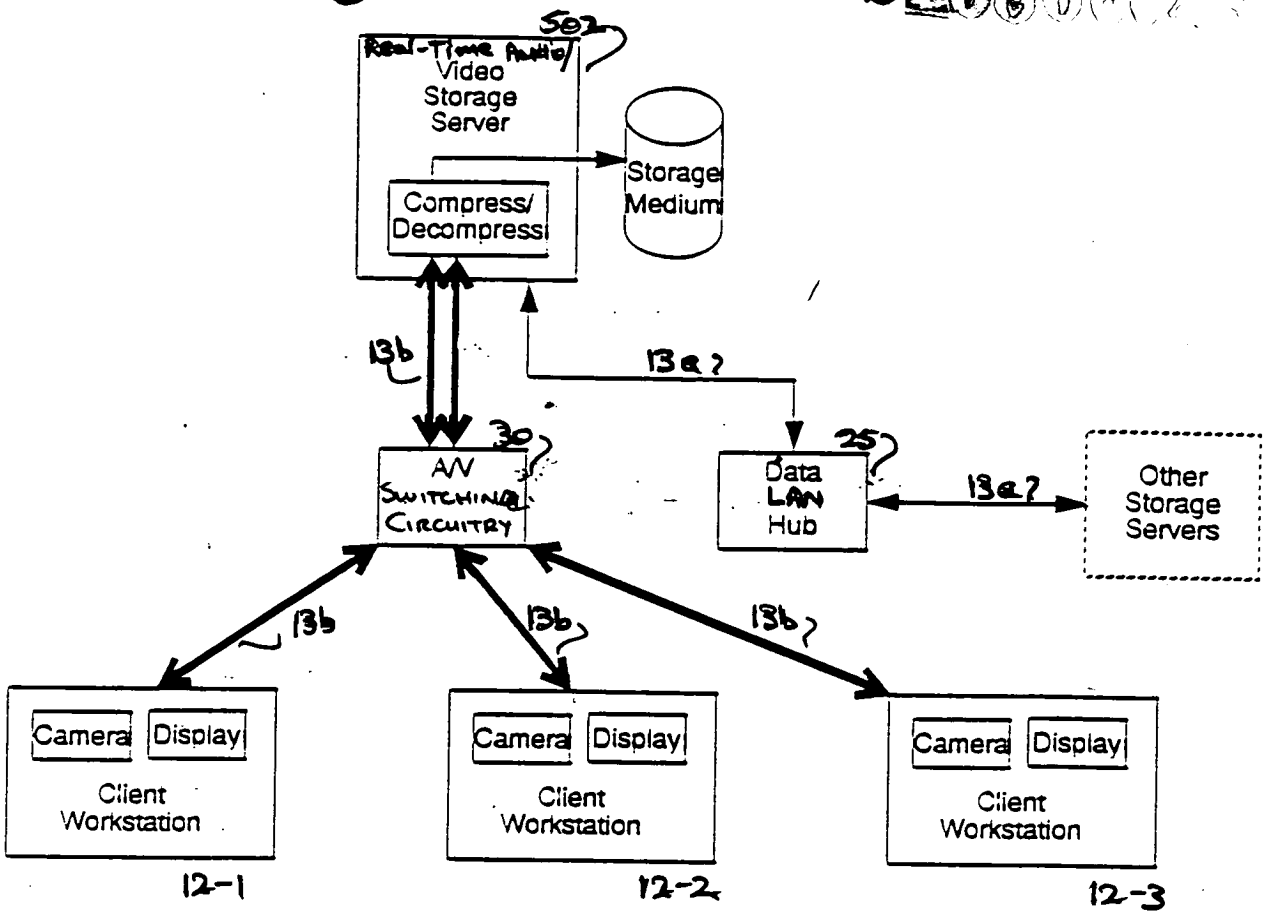


FIGURE 31B

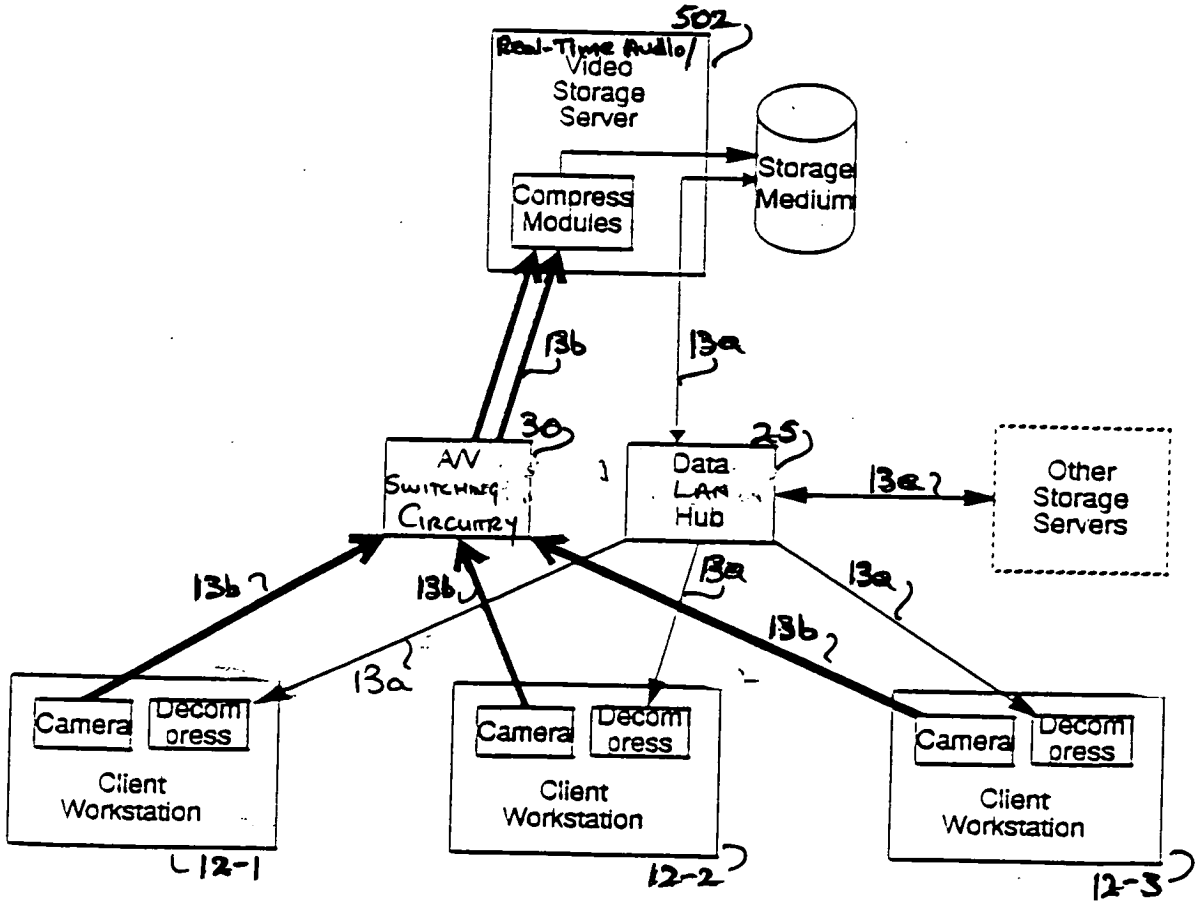


FIGURE 31C

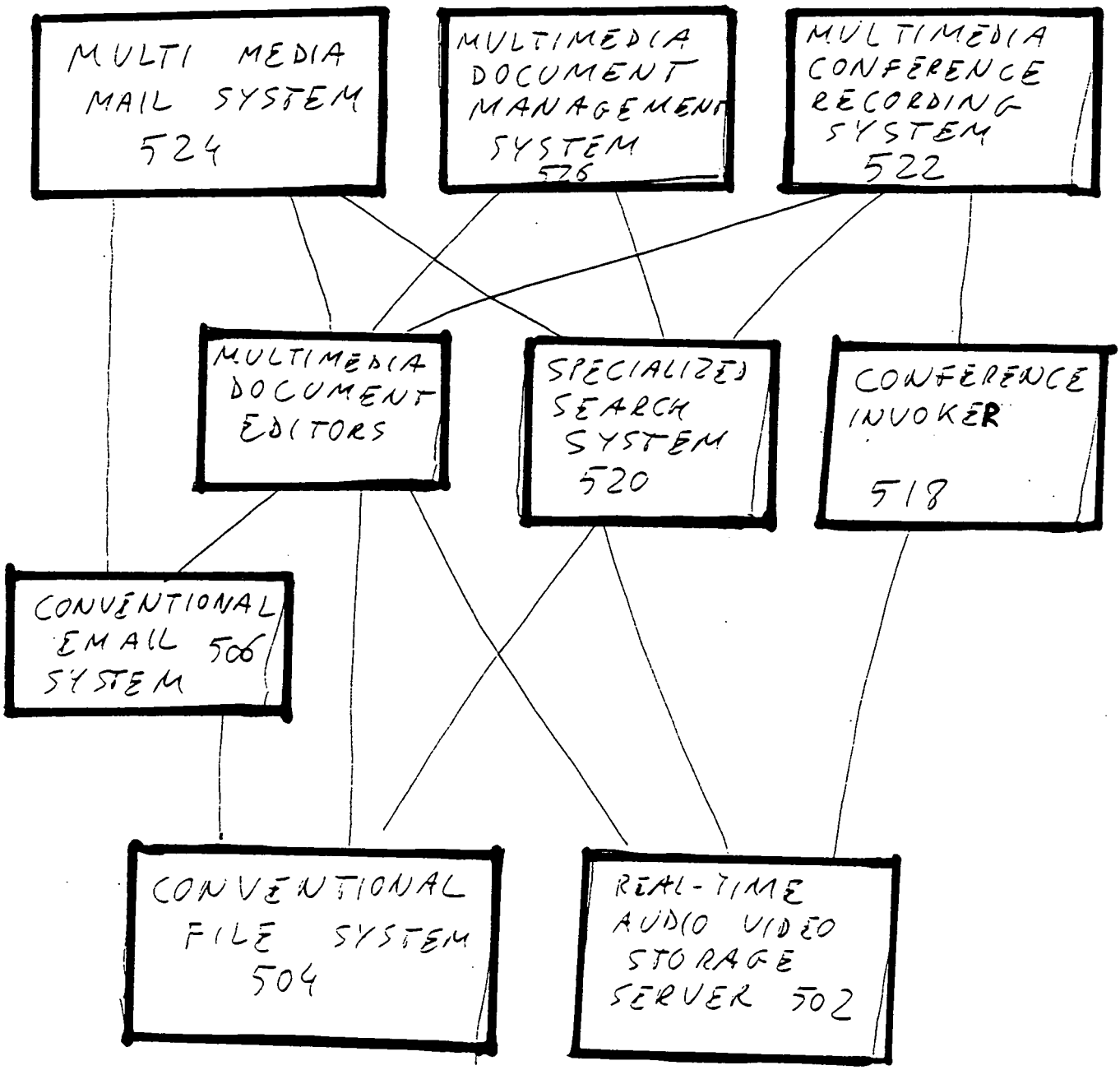

MULTI MEDIA MAIL SYSTEM 524
MULTIMEDIA DOCUMENT MANAGEMENT SYSTEM 526
MULTIMEDIA CONFERENCE RECORDING SYSTEM 522
MULTIMEDIA DOCUMENT EDITORS
SPECIALIZED SEARCH SYSTEM 520
CONFERENCE INVOKER 518
CONVENTIONAL EMAIL SYSTEM 506
CONVENTIONAL FILE SYSTEM 504
REAL-TIME AUDIO VIDEO STORAGE SERVER 502

FIGURE 31D

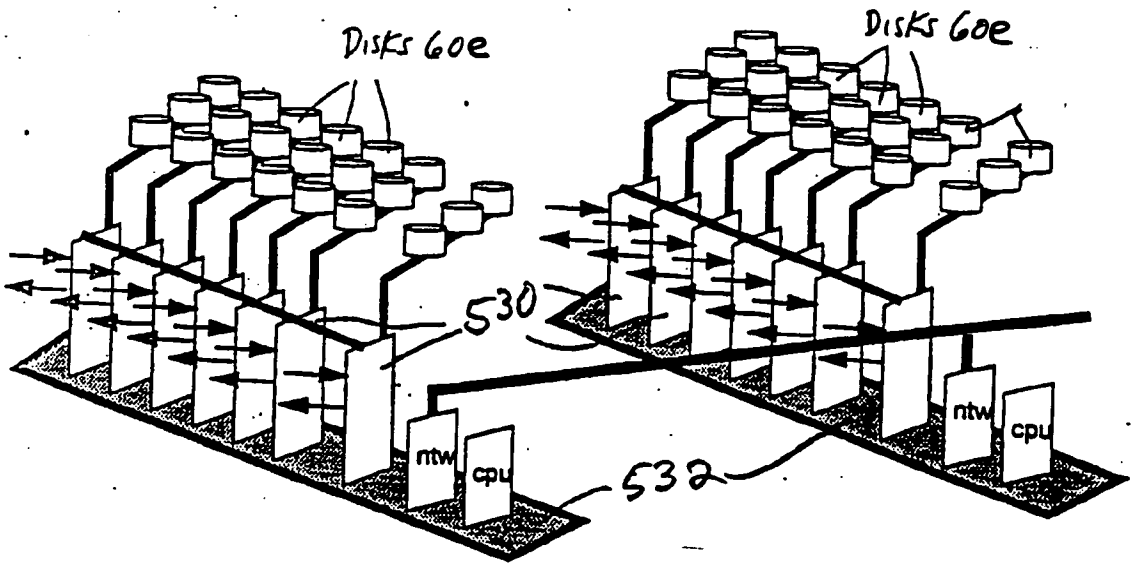


FIGURE 32

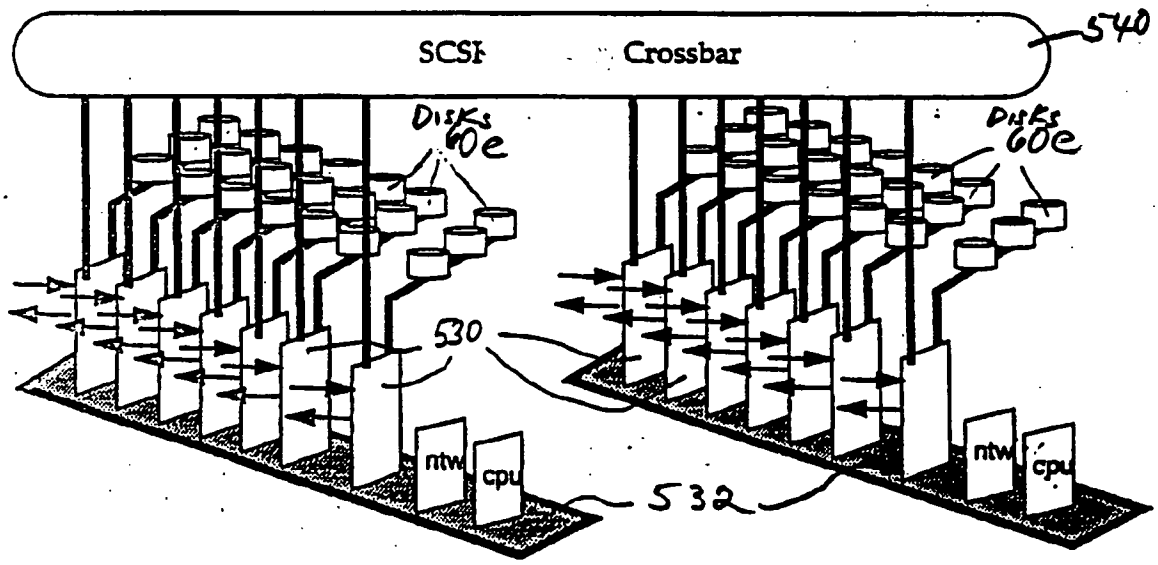


FIGURE 33

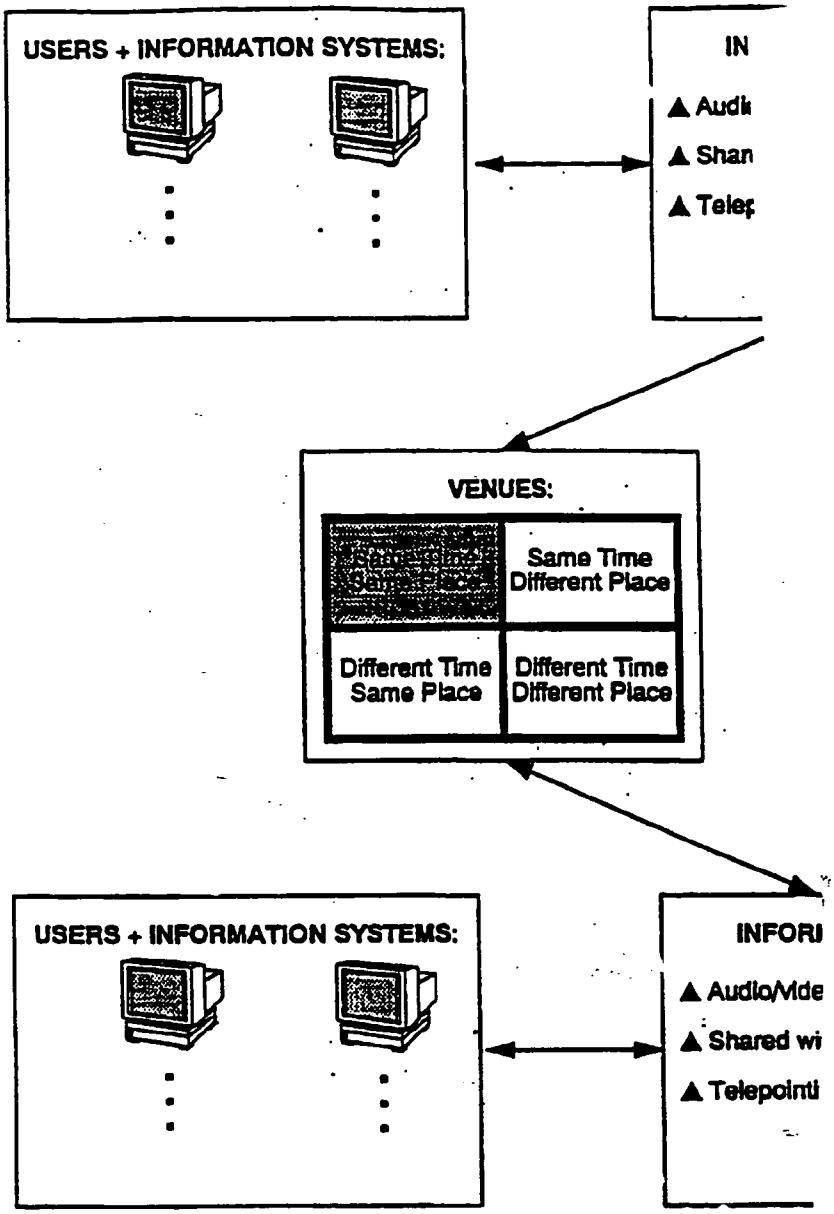

USERS + INFORMATION SYSTEMS:
IN
▲ Audi
▲ Shan
▲ Telep
VENUES:
Same Time Same Place
Same Time Different Place
Different Time Same Place
Different Time Different Place
USERS + INFORMATION SYSTEMS:
INFORI
▲ Audio/Vide
▲ Shared wi
▲ Telepointi

FIGURE 34

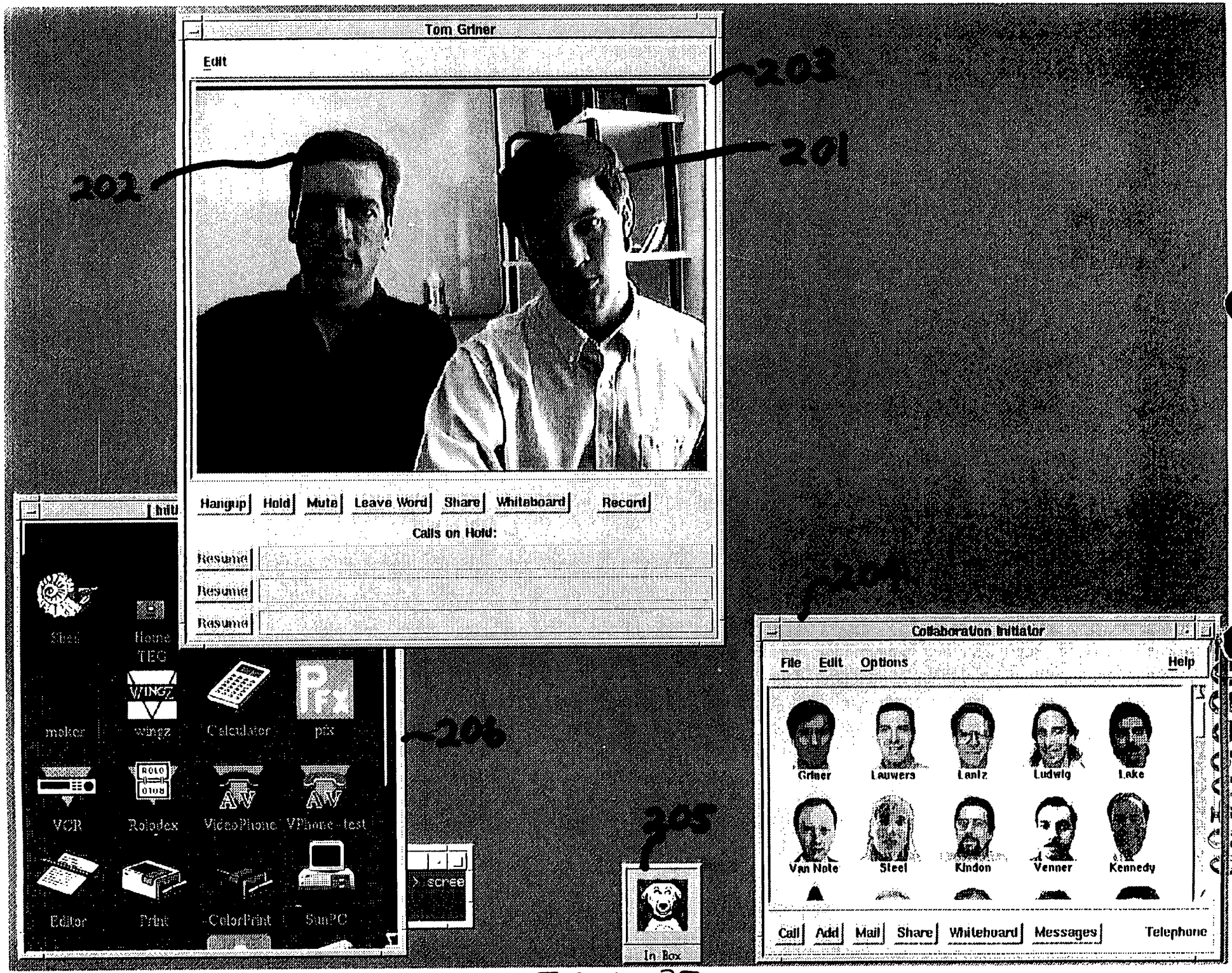

Tom Grlner
Edit
Hangup
Hold
Mute
Leave Word
Share
Whiteboard
Record
Calls on Hold:
Resume
Resume
Resume
Steel
Home TEC
maker
wingz
Calculator
pix
VCR
Rolodex
VideoPhone
VPhone-test
Editor
Print
ColorPrint
SunPC
In Box
Collaboration Initiator
File
Edit
Options
Help
Griner
Lauwers
Lantz
Ludwig
Lake
Van Note
Steel
Kindon
Venner
Kennedy
Call
Add
Mail
Share
Whiteboard
Messages
Telephone
202
203
201
204
205
206

FIGURE 35

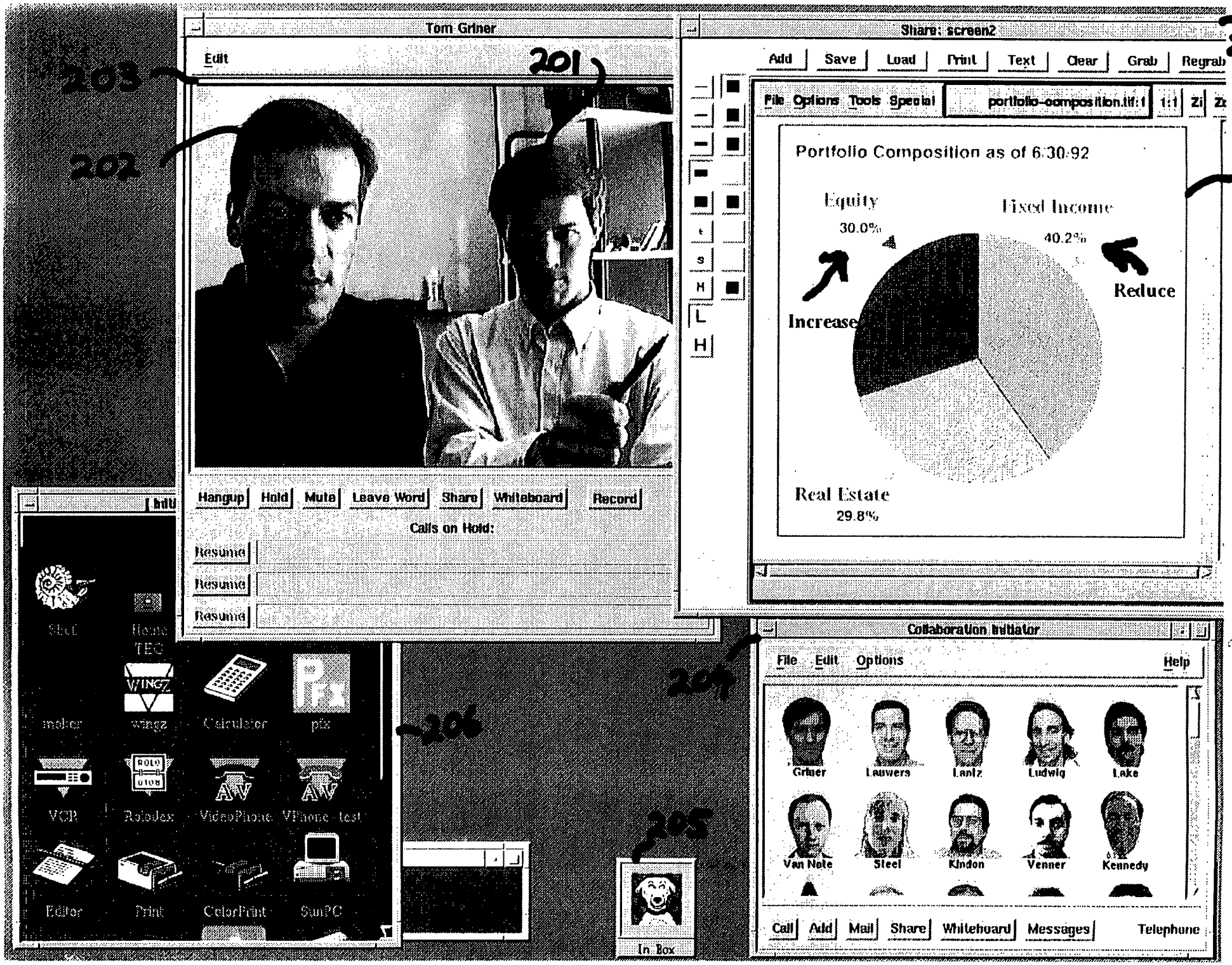


FIGURE 3A

08660460

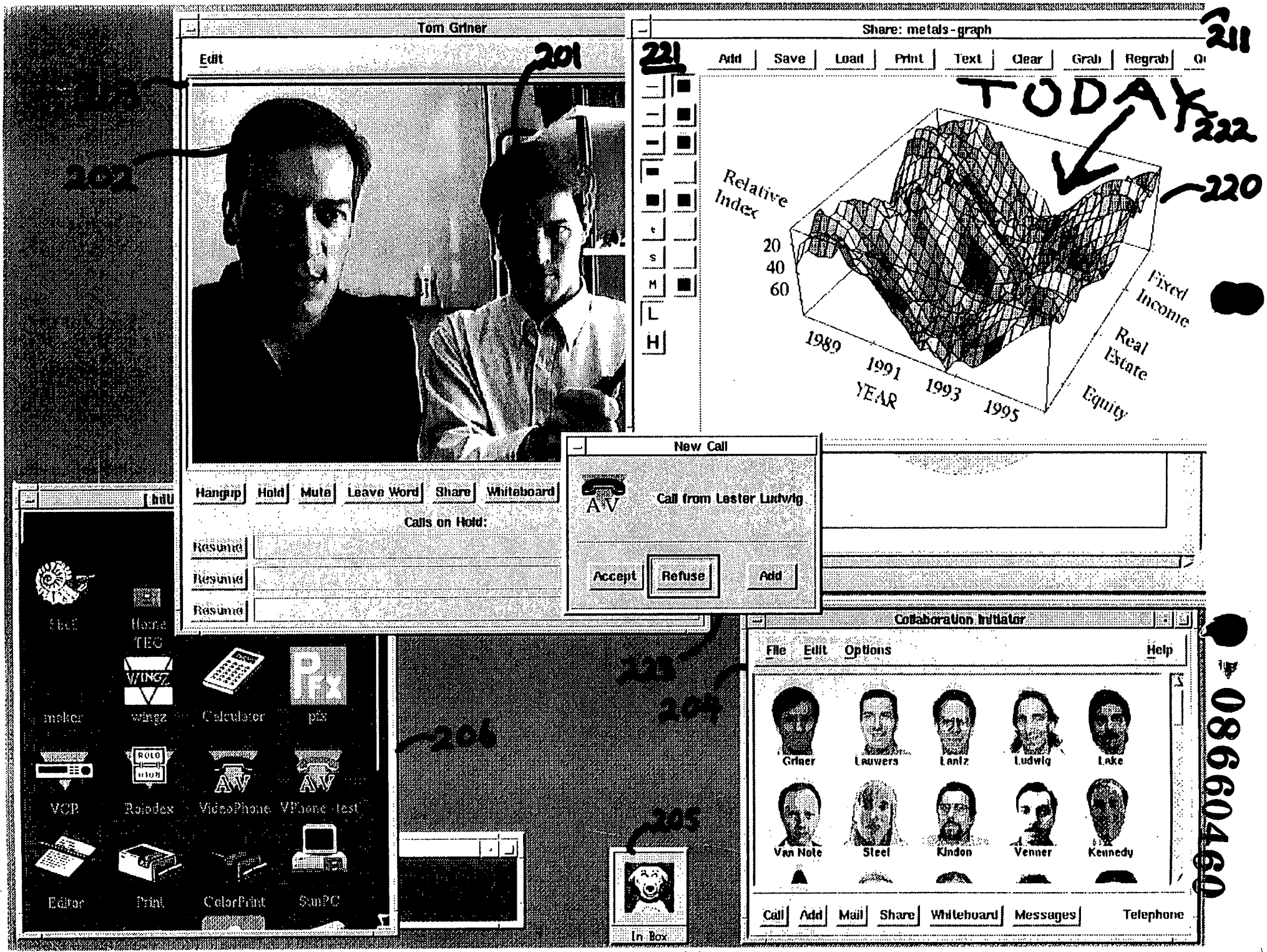


FIGURE 37

08660460

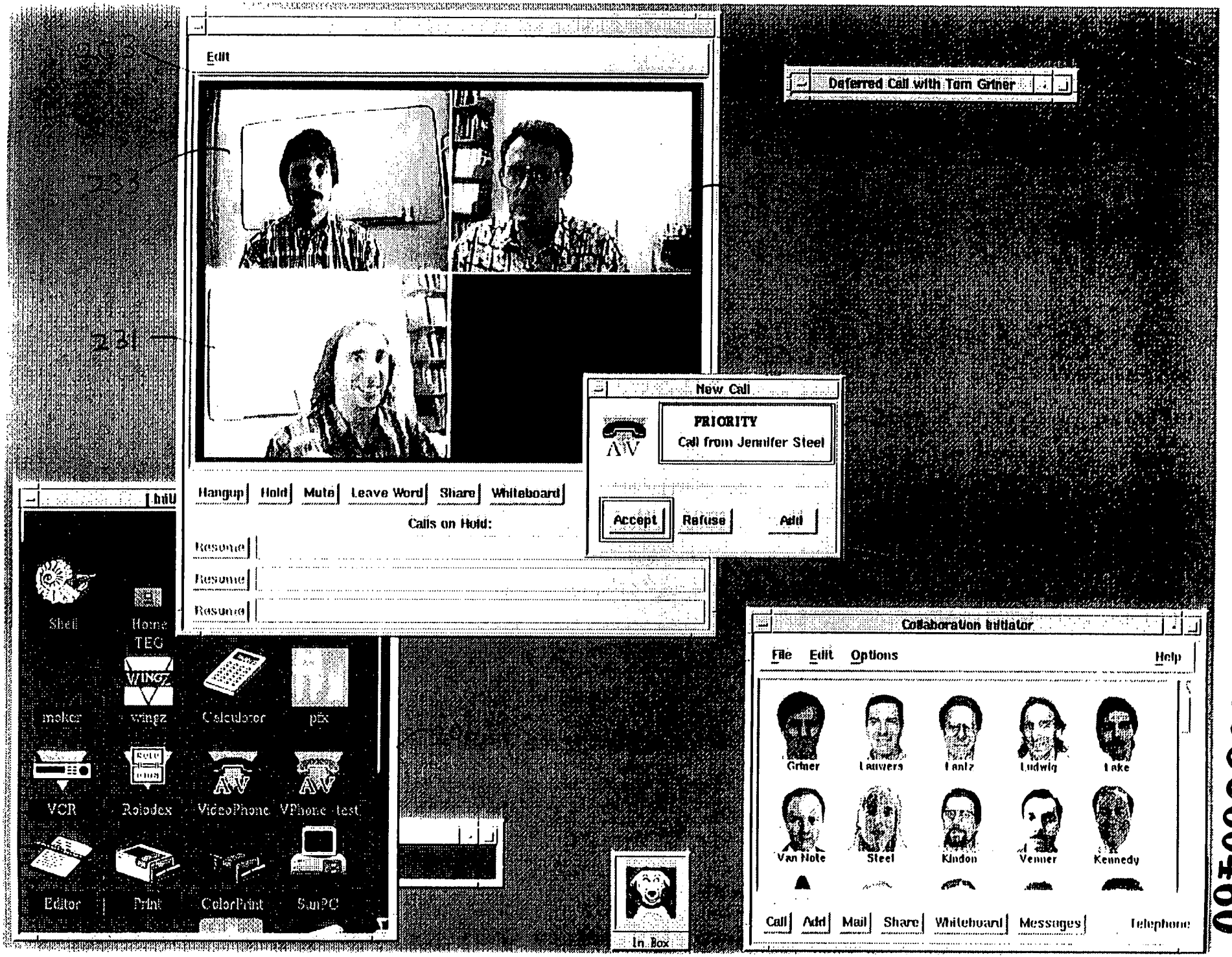


FIGURE 38

08660460

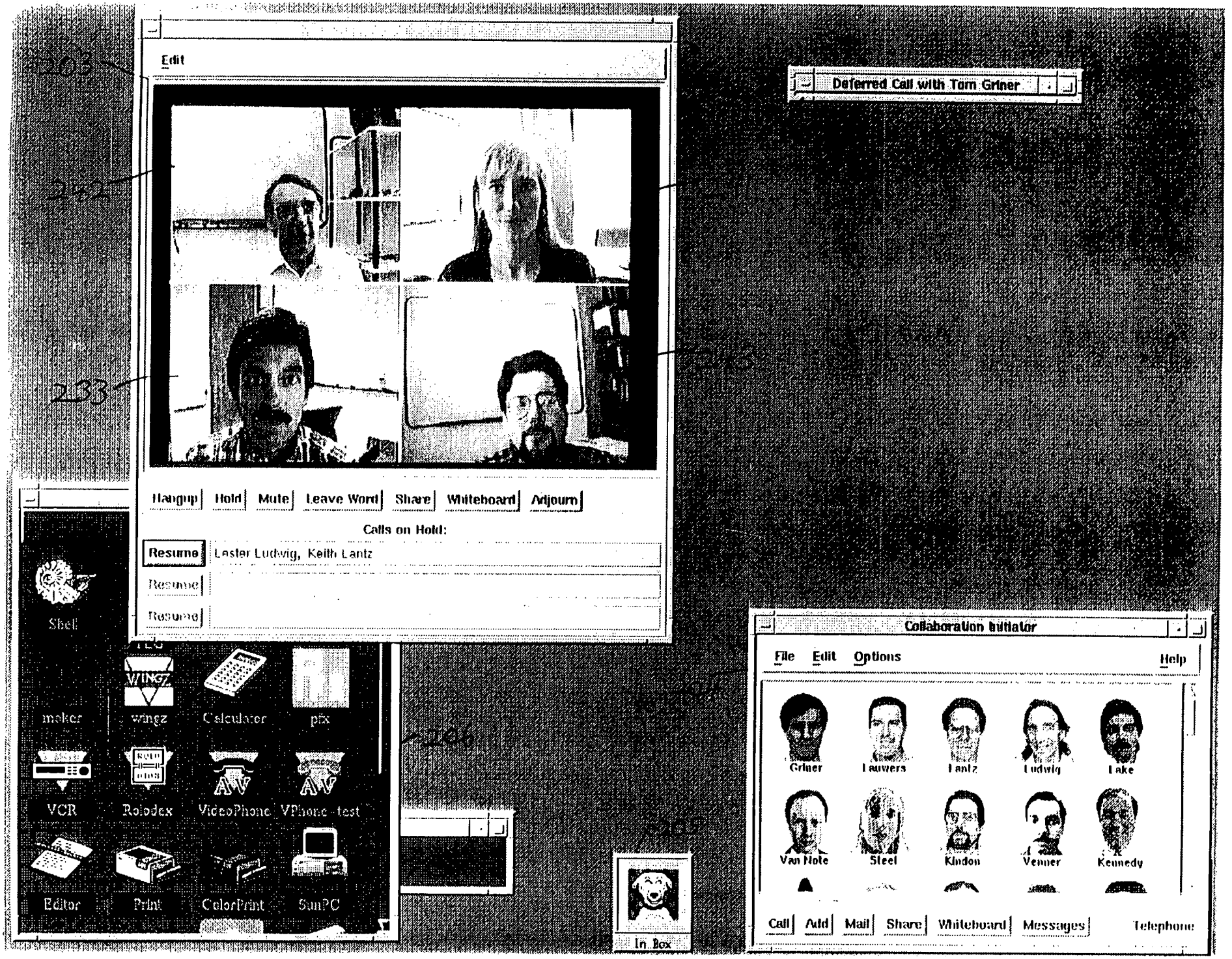


FIGURE 39

08690460

FIGURE 40

08660460

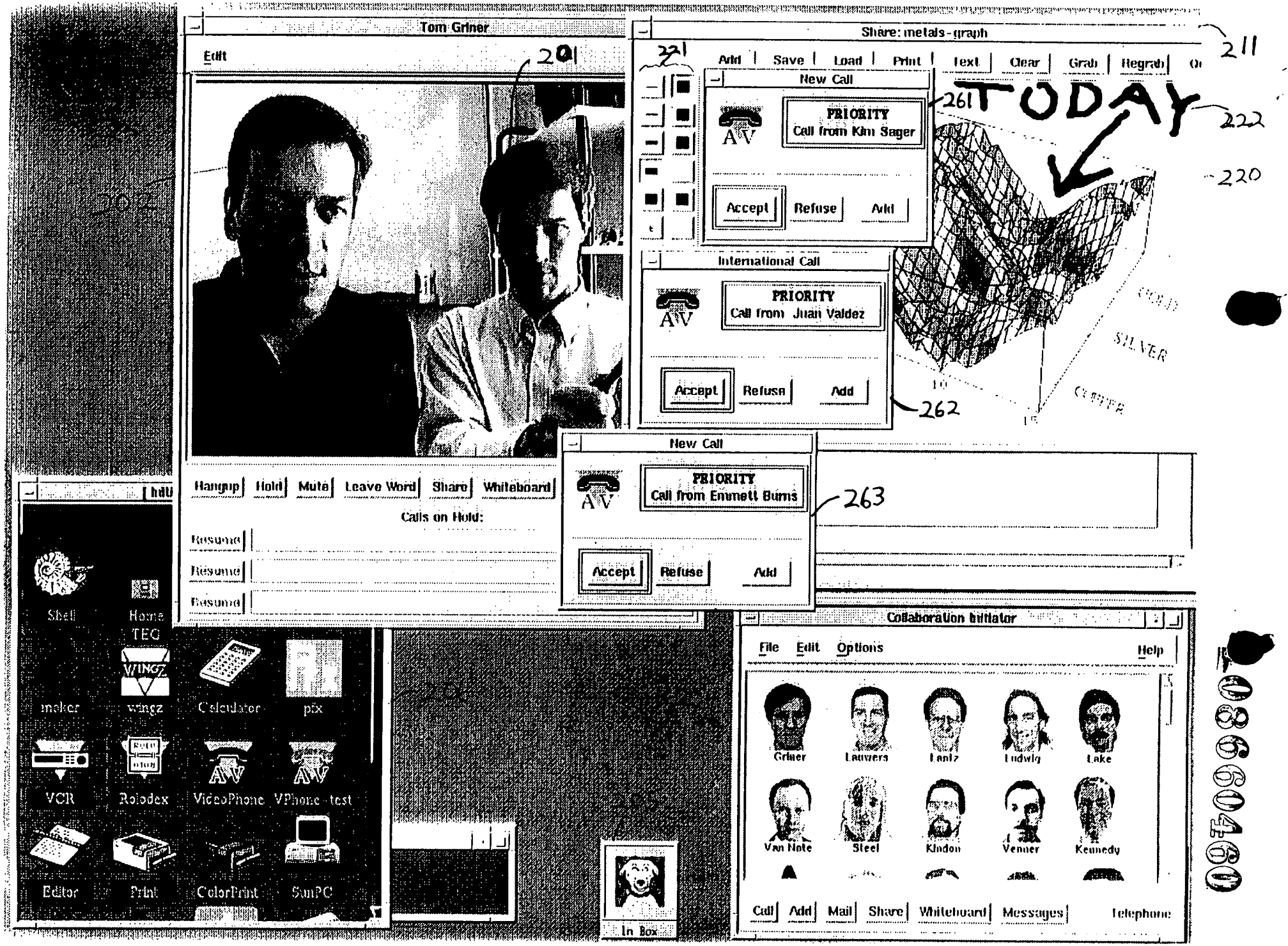

Tom Griner
Edit
201
Share: metals-graph
211
Add
Save
Load
Print
Text
Clear
Grab
Regrab
221
TODAY
222
220
New Call
AV
PRIORITY
Call from Kim Sager
261
Accept
Refuse
Add
International Call
AV
PRIORITY
Call from Juan Valdez
Accept
Refuse
Add
262
New Call
AV
PRIORITY
Call from Emmett Burns
263
Accept
Refuse
Add
Hangup
Hold
Mute
Leave Word
Share
Whiteboard
Calls on Hold:
Resume
Resume
Resume
Shell
Home
TEG
maker
wingz
Calculator
pix
VCR
Rolodex
VideoPhone
VPhone-test
Editor
Print
ColorPrint
SunPC
In Box
Collaboration Initiator
File
Edit
Options
Help
Griner
Lauwers
Lantz
Ludwig
Lake
Van Note
Steel
Kludon
Venner
Kennedy
Call
Add
Mail
Share
Whiteboard
Messages
Telephone

FIGURE 41

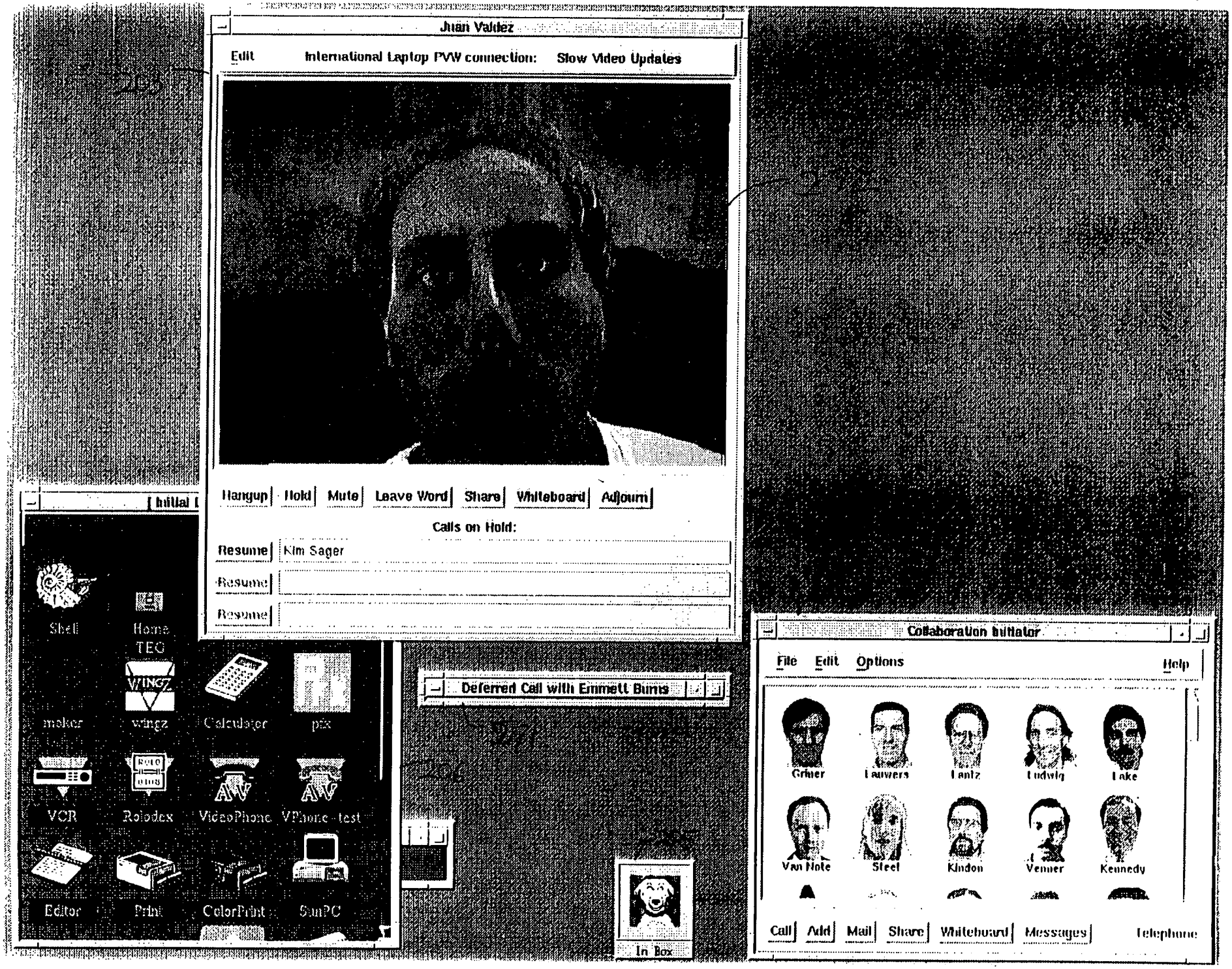


FIGURE 42

5,986,460